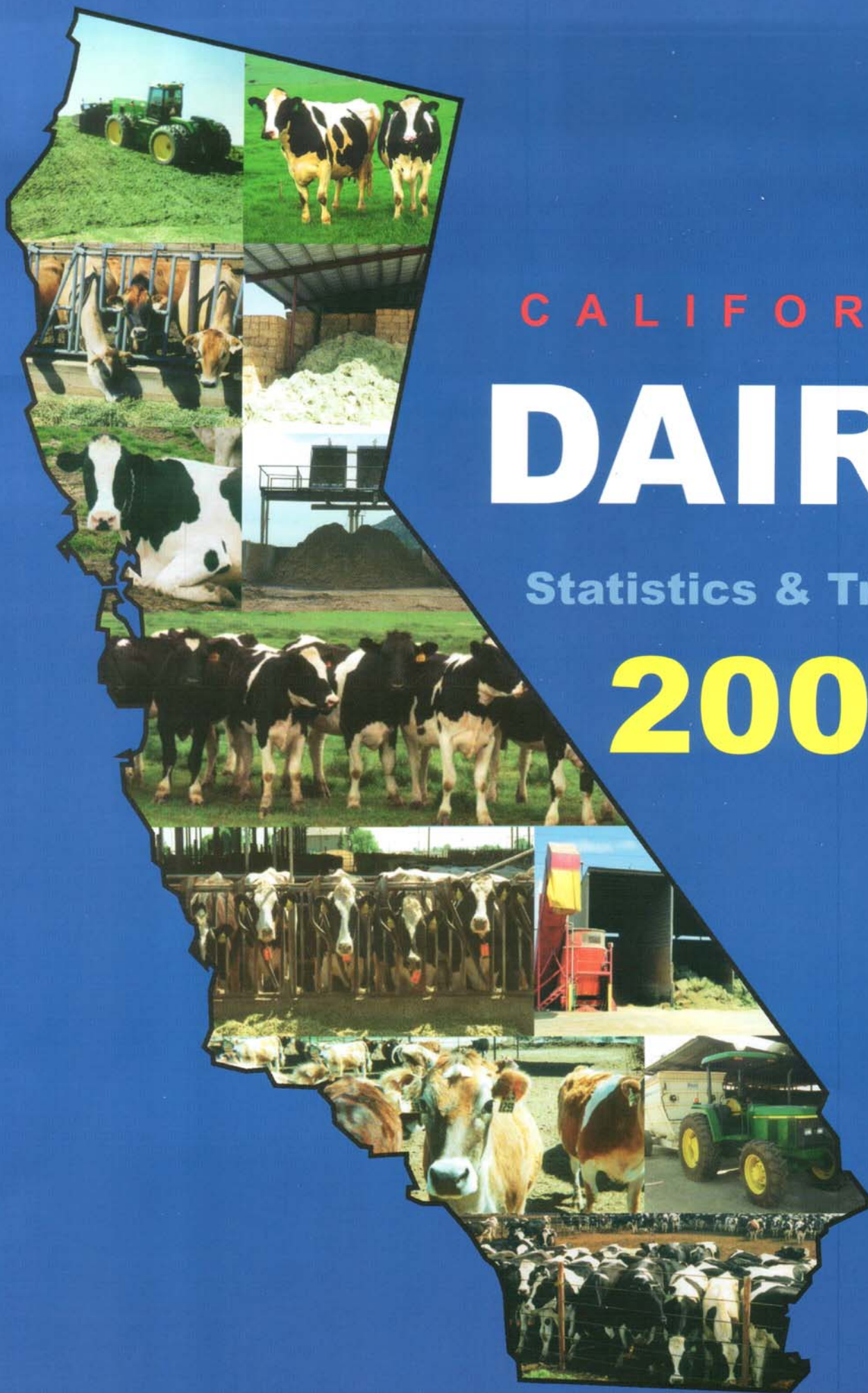


CALIFORNIA

DAIRY

Statistics & Trends

2001



Dairy Statistics Annual 2001

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Table of Contents

Dairy Industry 2001

California Dairy Industry in 2001, Overview	2
Dairy Facts & Highlights 2001	4
2001 California County Highlights	6
California Counties: Cows, Dairies, Cows per Dairy	7
Cows, Production, Receipts, California and U.S.	8
Cows, Production, Receipts by State	9
California's Leading Agricultural Commodities	10

Commercial Milk Production

Commercial Milk Production, Overview	11
Bulk Milk Production, Fat Test, SNF, by Month	12
Bulk Milk Production, Fat Test, SNF, by County	13
Production of All Milk, by County, by Month	14
Production of Market Milk, by County, by Month	16
Production of Manufacturing Milk, by County, by Month	18

Pooled Milk Utilization

Pooled Milk Utilization/Quota Transfers	20
Utilization of Pooled Milk Fat, SNF, Values	21

Sales of Class 1 Market Milk Products

Sales of Market Milk Products, Overview	22
Sales of Class 1 Market Milk Products	23
Class 1 Sales, by Marketing Areas	24

Manufacture of Dairy Products

Production of Dairy Products, Overview	25
Class 2 Production	26
Class 3 Production	28
Class 4a Production	29
Class 4b Production	30

Pricing/Costs

Pricing, Overview	31
Average Prices Paid Producers	32
Minimum Class 1 Prices	33
Minimum Class 2 Prices	34
Minimum Class 3 Prices	35
Minimum Class 4a/4b Prices	36
Quota, Base, Overbase Prices	37
Production Cost Summary	38
Manufacturing Cost Summary	39
California Milk Processing Plants	40

Other Information

Key Department Contacts	41
Classification of Dairy Products	42
Historic Dairy Industry Timeline	44

California Dairy Industry Overview



Sales of milk and cream continue to be California's #1 agricultural commodity in 2001 generating \$4.6 billion in revenue. Milk production and milk cow numbers both continue to grow and maintain their number one status in comparison with the rest of the U.S. California also continues to rank first in the production of butter and nonfat dry milk, and is second to Wisconsin in total cheese production. California also stood alone in one other area as well, facing the many challenges brought on by the state's energy crisis. Energy curtailments and rolling blackouts presented unique and unprecedented problems for processing plants and dairy producers. As the industry quickly learned, delays in fluid milk processing for even a few hours can create backlogs and disruptions in the processing chain that extend all the way back to the dairy farm level. Obtaining back-up generators and investigating alternative energy sources became a necessary activity for the entire dairy industry. With the state's energy crisis abated, other issues facing the industry included higher replacement heifer costs and higher hay costs, especially in the drought-ridden Northern California valleys.

In spite of all the adversities, California's dairy industry continues to grow and positively impact the state's economy, creating more than 120,000 jobs and approximately \$17.5 billion in annual economic activity, as reported in an October 2001 study prepared by the Community Alliance for Responsible Environmental Stewardship. The study data reflect that with moderate dairy industry growth over the next decade, another 25,000 jobs are expected to be generated in the eight-county San Joaquin Valley area alone. In addition, for every two jobs on California dairy farms, another three jobs are created off the farm by the purchasing of goods and services by dairy farms and their employees. The dairy industry's beneficial impact to the community is felt well beyond the dairy farm.

Milk Production and Utilization

After the outstanding milk production gains made in 1999 (10.2% increase relative to 1998), more moderate gains have been realized — 5.9% in 2000 and 3.0% in 2001. The annual total for 2001 might suggest that milk production is continuing to slow in California, but the monthly data tell a different story. In fact, milk production actually gained steam after a rather slow start to 2001. Through the first seven months of the year, milk production increases averaged less than 2% per month; during the last five months of the year, milk production increased an average of 4.6% per month. The bulk of milk produced in California continued to be concentrated in just a handful of counties. In 2001, Tulare, Merced, Stanislaus, San Bernardino, and Kings counties accounted for two-thirds of the milk produced. Milk used for fluid consumption (Class 1) decreased by 0.5% on a total solids basis, relative to 2000. Conversely, milk used to make cheese (Class 4b) increased by 14% on a total solids basis, relative to 2000. Milk used to make butter and dried milk products (Class 4a) actually decreased by 2.5% relative to 2000. Class 4a and 4b products continue to account for a very high percentage of



California dairy products, totaling 72% in 2001 on a total solids basis.

Milk Prices

After a year of relatively low milk prices during 2000, the prices received during 2001 were a welcome change of pace to dairy producers. The annual average price paid to producers in 2001 was \$13.93 per cwt., nearly \$2.50 per cwt. higher than the annual average for 2000. Pool prices increased steadily throughout the first five months of the year before leveling off. From January to May, the quota price increased by 23% and the overbase price increased by 27%. From June through September, the quota price averaged \$16.62 per cwt.; for the same time period, the overbase price averaged \$14.92 per cwt. Notwithstanding the impressively high prices during the summer months, milk prices tumbled for the remainder of the year. From September to December, the quota and overbase prices both fell by just over \$4.00 per cwt.

Public Hearings

In spite of the unusual price movements throughout the year, 2001 might very well be known as the "Year of the Hearing." The Department held six hearings during 2001, three of which addressed skyrocketing energy prices and the impact of increased energy costs on dairy producers and milk processors in California. The focus and the outcomes of the hearings are summarized below.

January 12, 2001

- Focus of hearing:
 - Institute a "floor" for commodity prices
 - Make adjustments to the class pricing formulas to compensate dairy producers for energy increases and fuel surcharges
- Outcome of hearing: No changes were made to the class pricing formulas or the commodity prices that are referenced by the formulas



March 28, 2001

- Focus of hearing:
 - Institute protein pricing in the Class 4b pricing formula (withdrawn prior to the hearing)
 - Add a whey component price to the Class 4b formula
- Outcome of hearing: No changes were made to the class pricing formula

March 30, 2001

- Focus of hearing: Establish an alternative pool

obligation for organic milk used for fluid purposes

- Outcome of hearing: No changes were made that would treat organic milk processors differently than traditional milk processors

May 31, 2001

- Focus of hearing: Make adjustments to the manufacturing cost allowances in the class pricing formulas to compensate milk processors for energy increases
- Outcome of hearing: No changes were made to the manufacturing cost allowances in the class pricing formulas

June 28 (Southern California) and July 2 (Northern California), 2001

- Focus of hearing:
 - Adjustments to the transportation allowances and transportation credits systems
 - Alterations to annual procedures for milk movement requirements
- Outcome of hearing:
 - The transportation allowance rates into the Bay Area & Solano Receiving Areas were increased
 - For the Southern California Receiving Area, the three supply areas were reduced to one, the mileage brackets were modified and one transportation allowance rate was increased
 - A new Receiving Area, represented by San Diego County was created
 - A transportation credit was established for milk moving from Los Angeles County to other Southern California counties
 - The annual call for comments regarding milk movement requirements was eliminated

November 29, 2001

- Focus of hearing: Make adjustments to the manufacturing cost allowances in the class pricing formulas to compensate milk processors for energy increases
- Outcome of hearing:
 - The manufacturing cost allowance for butter was increased from \$0.097 to \$0.102 per pound of finished product
 - The manufacturing cost allowance for cheese was increased from \$0.169 to \$0.176 per pound of finished product
 - The manufacturing cost allowance for nonfat dry milk was increased from \$0.14 to \$0.161 per pound of finished product

2001 Dairy Facts & Highlights



The following are statistics, facts, and highlights of information relating to California's agricultural and dairy industries. California has been the leading state in agricultural production for over 50 years and the sales of milk and cream continue to be California's number one agricultural commodity, generating \$4.6 billion in 2001.

Rankings

- California ranked first in milk production, followed by Wisconsin, New York, and Pennsylvania.
- California ranked fourth in milk production per cow at 20,913 pounds, following Washington, Colorado, and Idaho. The U.S. average milk production per cow was 18,201 pounds.
- California continues to lead the nation in the production of butter, nonfat dry milk, and whey protein concentrate.
- California is second in the nation in total cheese production at 1.64 billion pounds, following Wisconsin's 2.12 billion pounds. Many experts predict California will soon be the leading cheese producing state.
- California led the nation in the total number of dairy cows at 1.55 million, with the U.S. total at 9.11 million cows.

Facts & Highlights

- California's total milk production was 33.1 billion pounds, a three percent increase from 2000 totals, and 20 percent of the total U.S. milk production.
- The five leading counties in milk production, in ranking order were: Tulare, Merced, Stanislaus, San Bernardino, and Kings. Collectively, these five counties accounted for 67 percent of all milk produced in California.
- The five leading counties in manufacturing (Grade B) milk production, in ranking order, were: Humboldt, Merced, Stanislaus, Glenn, and Tulare. These five counties accounted for 73 percent of California's total manufacturing milk production.
- Class 4b production (cheese and whey byproducts) continues to grow at a faster rate than the other four classes of milk.
- California produces almost one out of every five glasses of milk in the United States.



2001 California

Sonoma

- 11th in total milk production at 654 million pounds
- 10th in total cheese production at 31.5 million pounds
- Milk second ranking agricultural commodity in 2000

Sacramento

- Milk second ranking agricultural commodity in 2000
- 4th in total butter production at 6.8 million pounds
- 4th in buttermilk production at 1 million gallons
- 4th in cottage cheese production at 7.1 million pounds



Fresno

- 8th in total milk production at 1.8 billion pounds
- 3rd in butter production at 55 million pounds
- 5th in buttermilk production at 544,000 pounds

Riverside

- 7th in total milk production at 2 billion pounds
- 5th in total cheese production at 170 million pounds
- Milk top agricultural commodity in 2000

Madera

- 10th in total milk production at 908 million pounds
- Grapes top agricultural commodity in 2000
- Milk second ranking agricultural commodity in 2000

Kings

- 5th in total milk production at 2.7 billion pounds
- 4th in total cheese production at 183 million pounds
- Milk top agricultural commodity in 2000

County Highlights



In our continuing effort to highlight all the milk-producing counties in California, this year we are highlighting Riverside, Kings, Fresno, Madera, Sacramento, and Sonoma counties.



CALIFORNIA COUNTIES: Cows, Dairies, Cows Per Dairy

Table 1. Number of Milk Cows and Heifers that have Calved on Farms, Number of Dairies, and Average Number of Cows per Dairy in California, by County and Region, 2000 and 2001

County and Region ^{1/}	2000			2001		
	Number Cows	Number Dairies ^{2/}	Average Number Cows/Dairy	Number Cows	Number Dairies ^{2/}	Average Number Cows/Dairy
Butte	761	4	190	709	4	177
Colusa ^{3/}		1			1	
Contra Costa ^{3/}	2,996	3	999		2	
Del Norte	2,580	8	323	2,741	9	305
Fresno	79,296	107	741	84,440	107	789
Glenn	14,676	67	219	15,365	59	260
Humboldt	15,945	103	155	16,483	101	163
Kern	65,074	39	1,669	71,584	38	1,884
Kings	120,088	148	811	126,645	149	850
Madera	40,624	51	797	44,426	50	889
Marin	10,828	29	373	9,762	29	337
Mendocino ^{3/}		2			2	
Merced	203,647	335	608	212,127	334	635
Monterey	2,609	6	435	1,959	3	653
Placer ^{3/}		1			1	
Sacramento	17,367	56	310	17,159	50	343
San Benito	636	3	212	749	3	250
San Joaquin	97,849	155	631	101,070	155	652
Santa Clara ^{3/}	490	3	163		2	
Santa Cruz ^{3/}		1			1	
Shasta ^{3/}		1			1	
Siskiyou	1,606	5	321	1,731	5	346
Solano	1,517	4	379	1,527	4	382
Sonoma	31,345	90	348	30,742	88	349
Stanislaus	158,087	324	488	156,930	318	493
Sutter ^{3/}		1			1	
Tehama	5,219	31	168	5,259	29	181
Tulare	357,950	304	1,177	375,505	309	1,215
Yolo	1,463	3	488	1,842	3	614
Yuba	3,325	4	831	3,222	4	806
Northern California	1,238,793	1,889	656	1,288,476	1,862	692
Imperial ^{3/}		2			2	
Los Angeles ^{3/}		2			2	
Riverside	113,283	97	1,168	100,434	94	1,068
San Bernardino	161,251	189	853	152,466	184	829
San Diego	6,757	11	614	5,985	9	665
San Luis Obispo ^{3/}		1			1	
Santa Barbara	2,699	4	675	2,787	3	929
Southern California	289,462	306	946	266,672	295	904
STATE TOTALS	1,528,255	2,195	696	1,555,148	2,157	721

^{1/} Counties omitted have no reported milk production.

^{2/} Number of dairies source is Milk and Dairy Foods Control.

^{3/} Not published, but included in total.



California 2001 Cows, Production, Receipts

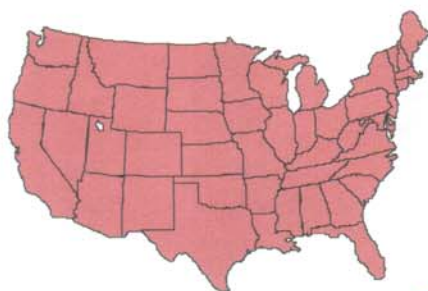
Table 2. California, Estimated Number of Milk Cows on Farms, Average Production Per Milk Cow, Total Production on Farms, and Cash Receipts From Farm Marketing of Dairy Products, 1996-2001 ^{1/}

Year	Milk Cows & Heifers That Have Calved, On Farms		Average Production Per Milk Cow		Total Production On Farms		Cash Receipts From Farm Marketings Of Dairy Products ^{2/}
	Jan. 1 Total	Annual Average	Milk	Milk Fat Test	Milk	Milk Fat Test	
	<i>Thousands</i>		<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Percent</i>	<i>Thousand Dollars</i>
1996	1,320	1,349	19,161	3.66	25,848	3.66	3,714,624
1997	1,380	1,391	19,829	3.64	27,582	3.64	3,629,762
1998	1,400	1,420	19,475	3.67	27,654	3.67	4,140,659
1999	1,440	1,466	20,777	3.66	30,453	3.66	4,090,952
2000	1,490	1,526	21,149	3.68	32,273	3.68	3,703,920
2001 ^{3/}	1,560	1,590	20,913	3.68	33,251	3.68	4,631,864

^{1/} USDA/NASS data. Source: "Cattle Report" and "Milk Production, Disposition and Income."

^{2/} All milk and cream.

^{3/} Figures for 2001 are preliminary.



United States 2001 Cows, Production, Receipts

Table 3. United States, Estimated Number of Milk Cows on Farms, Average Production Per Milk Cow, Total Production on Farms, and Cash Receipts From Farm Marketings of Dairy Products, 1996-2001 ^{1/}

Year	Milk Cows & Heifers That Have Calved, On Farms		Average Production Per Milk Cow		Total Production On Farms		Cash Receipts From Farm Marketings Of Dairy Products ^{2/}
	Jan. 1 Total	Annual Average	Milk	Milk Fat Test	Milk	Milk Fat Test	
	<i>Thousands</i>		<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Percent</i>	<i>Thousand Dollars</i>
1996	9,420	9,372	16,433	3.69	154,006	3.69	22,781,435
1997	9,318	9,252	16,871	3.66	156,091	3.66	20,936,726
1998	9,199	9,154	17,189	3.66	157,348	3.66	24,114,036
1999	9,133	9,156	17,772	3.67	162,716	3.67	23,207,099
2000	9,190	9,206	18,201	3.68	167,559	3.68	20,621,983
2001 ^{3/}	9,183	9,115	18,139	N/A	165,336	N/A	N/A

^{1/} USDA/NASS data. Source: "Cattle Report" and "Milk Production, Disposition and Income".

^{2/} All milk and cream.

^{3/} Figures for 2001 are preliminary.

N/A – Unavailable at time of release.

Tables 2 & 3 are derived from USDA/NASS statistics.

Total milk production figures on all farms includes all milk produced on the farm.



COWS, PRODUCTION, RECEIPTS, by State

Table 4. Total Production on Farms, Estimated Number of Milk Cows on Farms,
Average Production Per Milk Cow, by State, 2001 ^{1/ 2/}

State	Total Production on Farms Milk	% Change from 2000	Milk cows on farms ^{2/}	Average production per milk cow Milk	Rank in Production	Percent of United States Production
	<i>Million Pounds</i>		<i>Thousands</i>	<i>Pounds</i>		<i>Percent</i>
Alabama	300	-13.8	21	14,286	43	0.2
Alaska	13	10.0	1	13,055	50	0.0
Arizona	2,895	-4.5	140	20,679	13	1.8
Arkansas	432	-10.9	35	12,343	38	0.3
California	33,251	3.0	1,590	20,913	1	20.1
Colorado	1,970	2.4	91	21,648	18	1.2
Connecticut	456	-5.0	25	18,240	37	0.3
Delaware	151	0.7	10	16,778	46	0.1
Florida	2,411	-2.1	153	15,758	16	1.5
Georgia	1,431	-0.1	86	16,640	26	0.9
Hawaii	105	-9.0	8	14,107	47	0.1
Idaho	7,757	7.4	366	21,194	6	4.7
Illinois	2,020	-3.5	116	17,414	17	1.2
Indiana	2,560	5.8	153	16,732	15	1.5
Iowa	3,785	-3.8	210	18,024	12	2.3
Kansas	1,610	4.5	93	17,312	24	1.0
Kentucky	1,660	-2.1	128	12,969	22	1.0
Louisiana	632	-9.5	54	11,704	34	0.4
Maine	654	-2.1	38	17,211	32	0.4
Maryland	1,294	-4.2	82	15,780	28	0.8
Massachusetts	358	-4.8	21	17,048	40	0.2
Michigan	5,855	2.6	303	19,323	7	3.5
Minnesota	8,812	-7.2	510	17,278	5	5.3
Mississippi	497	-8.1	35	14,200	35	0.3
Missouri	1,949	-13.7	145	13,441	19	1.2
Montana	346	2.4	19	18,211	41	0.2
Nebraska	1,156	-7.9	72	16,056	31	0.7
Nevada	485	1.9	25	19,400	36	0.3
New Hampshire	323	3.5	18	17,944	42	0.2
New Jersey	233	-4.5	14	16,643	45	0.1
New Mexico	5,561	6.2	168	20,750	8	3.4
New York	11,778	-1.2	672	17,527	3	7.1
North Carolina	1,164	-2.1	67	17,373	30	0.7
North Dakota	644	-6.1	46	14,000	33	0.4
Ohio	4,319	-3.2	260	16,612	11	2.6
Oklahoma	1,293	-0.2	89	14,528	29	0.8
Oregon	1,717	4.7	95	18,074	21	1.0
Pennsylvania	10,849	-2.8	599	18,112	4	6.6
Rhode Island	23	-17.7	1	16,571	49	0.0
South Carolina	367	-0.8	21	17,476	39	0.2
South Dakota	1,580	-3.3	99	15,960	25	1.0
Tennessee	1,335	-5.0	92	14,511	27	0.8
Texas	5,099	-11.1	325	15,689	10	3.1
Utah	1,635	-3.1	93	17,581	23	1.0
Vermont	2,667	-0.6	153	17,431	14	1.6
Virginia	1,876	-1.3	118	15,898	20	1.1
Washington	5,514	-1.4	247	22,324	9	3.3
West Virginia	249	-6.0	16	15,563	44	0.2
Wisconsin	22,199	-4.6	1,292	17,182	2	13.4
Wyoming	63	-17.1	5	14,000	48	0.0
United States ^{3/}	165,336	-1.3	9,115	18,201		

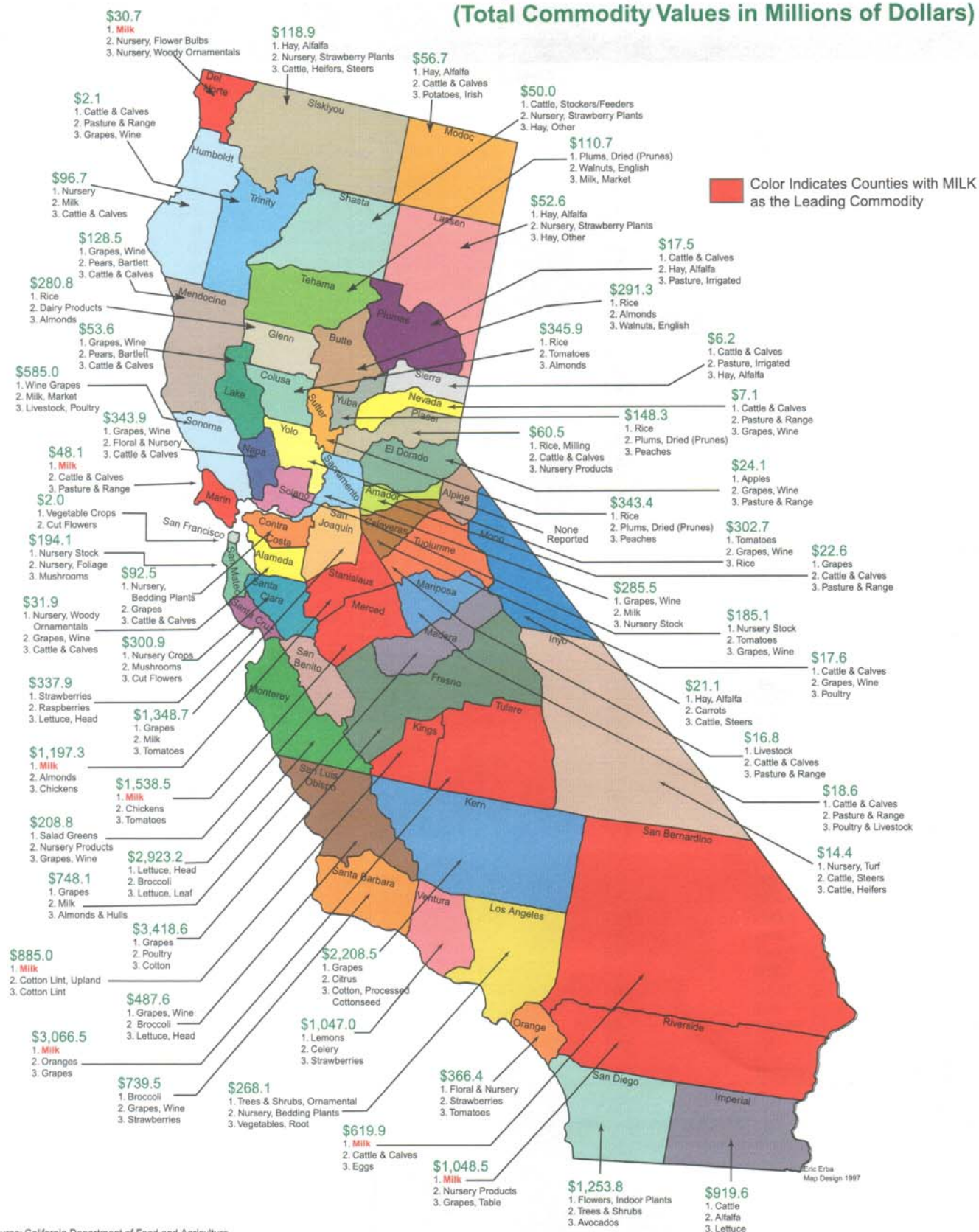
^{1/} USDA/NASS data.

^{2/} Average number during year, heifers that have not freshened excluded.

^{3/} State totals may not add to U.S. totals because of rounding.

California's Leading Agricultural Commodities

by County, for the Year 2000
(Total Commodity Values in Millions of Dollars)



Source: California Department of Food and Agriculture
Resource Directory 2001





Commercial Milk Production

California commercial milk production increased 3 percent in 2001 to 33.1 billion pounds, in contrast to decreasing milk production in many parts of the country. The majority of the milk was market grade (Grade A), with only one percent manufacturing grade (Grade B). A portion of the manufacturing grade milk was produced by traditionally market grade dairies that opted to operate as manufacturing grade facilities.

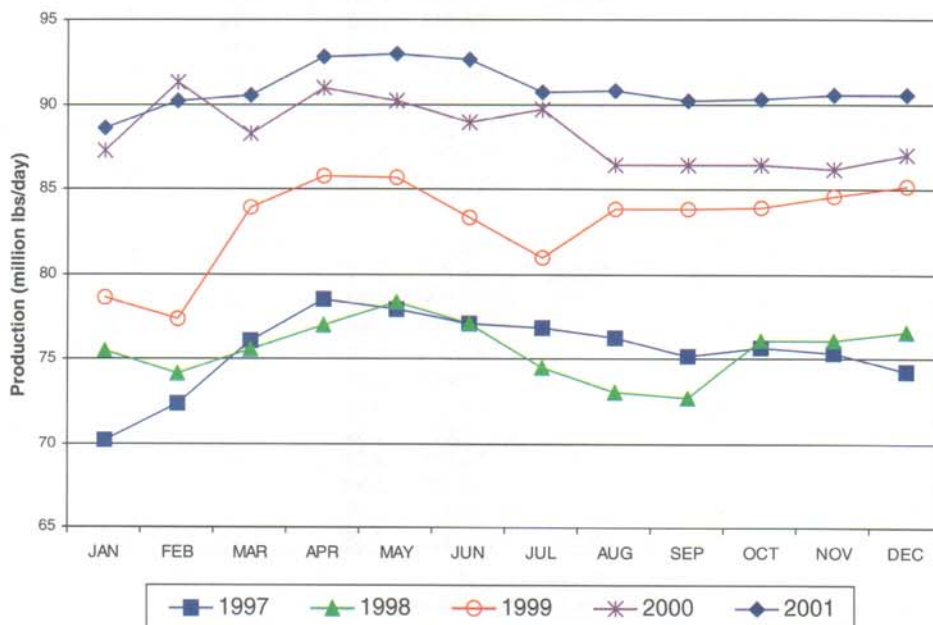
The 47 counties of the Northern California region accounted for 83 percent of the market milk and 96 percent of the manufacturing milk produced commercially during 2001.

The five leading counties in total milk production for 2001, in ranking order, were: Tulare (25 percent), Merced (13 percent), Stanislaus (10 percent), San Bernardino (9 percent), and Kings (8 percent). These five counties accounted for 67 percent of California's total milk production.

The five leading counties in manufacturing milk production, in ranking order, were: Humboldt (28 percent), Merced (14 percent), Stanislaus (12 percent), Glenn (11 percent), and Tulare (6 percent). These five counties accounted for 73 percent of California's total manufacturing milk production.

The following chart represents the production of milk, in millions of pounds per day, on a monthly basis from January 1997 through December 2001.

**California Milk Production
Average Daily Basis, 1997-2001**



CALIFORNIA MILK PRODUCTION

Table 5. Commercial Production of Bulk Milk, Average Milk Fat and Solids Not Fat Test in California, by Year, 1997-2001 ^{1/}

Year and Month	Bulk Milk			Average Milk Fat Test			Average Solids not Fat Test			Total Bulk Milk Change From Prior Year
	Market	Manufacturing	Total ^{2/}	Market	Manufacturing	Total	Market	Manufacturing	Total	
		Thousand Pounds			Percent			Percent		Percent
1997	27,197,308	359,772	27,557,080	3.63	4.04	3.64	8.76	8.85	8.76	6.8
1998	27,184,791	400,747	27,585,538	3.66	4.01	3.66	8.74	8.86	8.75	0.1
1999	30,032,734	377,162	30,409,896	3.66	4.03	3.66	8.76	8.95	8.76	10.2
2000	31,826,556	381,023	32,207,579	3.68	4.02	3.68	8.76	8.94	8.76	5.9
2001	32,849,558	333,834	33,183,392	3.68	3.99	3.68	8.76	8.94	8.76	3.0
1998										
January	2,310,150	30,202	2,340,352	3.82	4.22	3.83	8.80	8.96	8.81	7.5
February	2,044,163	33,148	2,077,311	3.83	4.16	3.84	8.79	8.93	8.80	2.5
March	2,303,241	39,995	2,343,236	3.72	3.99	3.72	8.72	8.86	8.73	0.6
April	2,273,067	37,493	2,310,560	3.68	4.00	3.69	8.72	8.85	8.72	2.0
May	2,387,494	42,356	2,429,850	3.62	3.94	3.62	8.71	8.85	8.71	0.6
June	2,272,623	40,159	2,312,782	3.57	3.87	3.57	8.68	8.81	8.69	0.1
July	2,273,007	35,134	2,308,141	3.52	3.84	3.53	8.63	8.75	8.63	3.1
August	2,233,744	32,491	2,266,234	3.47	3.84	3.47	8.64	8.76	8.64	4.1
September	2,152,100	29,356	2,181,456	3.52	3.94	3.52	8.69	8.80	8.70	3.3
October	2,329,922	29,067	2,358,988	3.68	4.05	3.68	8.83	8.83	8.83	0.6
November	2,256,635	25,381	2,282,015	3.70	4.13	3.70	8.84	8.98	8.84	1.0
December	2,348,647	25,967	2,374,613	3.79	4.28	3.79	8.87	9.03	8.87	3.2
1999										
January	2,407,762	29,011	2,436,773	3.77	4.13	3.77	8.83	8.95	8.83	4.1
February	2,219,672	23,046	2,242,718	3.74	4.14	3.75	8.80	8.96	8.81	8.0
March	2,570,400	30,027	2,600,427	3.67	3.97	3.67	8.78	8.90	8.78	11.0
April	2,539,723	32,637	2,572,360	3.66	3.97	3.67	8.77	8.91	8.77	11.3
May	2,621,217	33,810	2,655,027	3.59	3.96	3.59	8.74	8.98	8.74	9.3
June	2,467,756	32,125	2,499,881	3.55	3.92	3.55	8.71	8.86	8.71	8.1
July	2,479,178	29,997	2,509,175	3.52	3.94	3.53	8.68	8.85	8.68	8.7
August	2,565,468	32,217	2,597,685	3.57	3.96	3.58	8.70	9.20	8.70	14.6
September	2,474,749	41,056	2,515,805	3.60	3.93	3.61	8.71	8.81	8.72	15.3
October	2,569,263	33,171	2,602,434	3.66	4.11	3.67	8.76	8.99	8.76	10.3
November	2,507,210	31,051	2,538,262	3.73	4.14	3.74	8.79	8.99	8.79	11.2
December	2,610,336	29,014	2,639,349	3.81	4.24	3.81	8.83	9.04	8.83	11.1
2000										
January	2,675,387	30,472	2,705,859	3.78	4.09	3.78	8.79	8.99	8.79	11.0
February	2,532,143	23,688	2,555,830	3.75	4.10	3.75	8.77	8.97	8.77	14.0
March	2,699,327	37,097	2,736,425	3.75	4.03	3.75	8.76	8.94	8.77	5.2
April	2,694,556	34,332	2,728,888	3.64	3.94	3.64	8.75	8.96	8.75	6.1
May	2,760,890	35,328	2,796,218	3.61	3.94	3.61	8.73	8.97	8.73	5.3
June	2,631,735	37,581	2,669,316	3.55	3.86	3.56	8.69	8.88	8.70	6.8
July	2,745,053	36,394	2,781,447	3.56	3.90	3.56	8.69	8.88	8.69	10.9
August	2,645,520	33,167	2,678,687	3.59	3.97	3.59	8.69	8.88	8.69	3.1
September	2,562,894	29,938	2,592,832	3.64	4.04	3.65	8.74	8.90	8.74	3.1
October	2,647,305	31,780	2,679,084	3.70	4.11	3.71	8.79	8.97	8.80	2.9
November	2,558,462	26,443	2,584,905	3.79	4.25	3.80	8.84	9.02	8.84	1.8
December	2,673,283	24,802	2,698,086	3.79	4.22	3.79	8.82	8.98	8.82	2.2
2001										
January	2,725,280	22,849	2,748,129	3.81	4.15	3.81	8.83	8.97	8.83	1.6
February	2,505,698	20,092	2,525,791	3.77	4.10	3.77	8.81	8.96	8.81	1.2
March	2,780,611	25,908	2,806,519	3.71	3.95	3.71	8.76	8.93	8.76	2.6
April	2,758,191	25,370	2,783,561	3.66	3.91	3.66	8.75	8.94	8.76	2.0
May	2,851,446	31,365	2,882,811	3.60	3.85	3.60	8.69	8.90	8.70	3.1
June	2,746,912	33,752	2,780,664	3.57	3.83	3.57	8.67	8.85	8.68	4.2
July	2,780,829	32,555	2,813,384	3.57	3.84	3.58	8.67	9.05	8.67	1.1
August	2,784,151	29,730	2,813,881	3.59	3.92	3.59	8.70	8.87	8.70	5.0
September	2,677,954	27,214	2,705,167	3.63	3.99	3.63	8.75	8.93	8.76	4.3
October	2,772,649	27,138	2,799,787	3.69	4.11	3.69	8.79	8.98	8.79	4.5
November	2,687,003	28,831	2,715,834	3.76	4.12	3.77	8.82	8.94	8.82	5.1
December	2,778,834	29,031	2,807,865	3.85	4.24	3.85	8.85	9.01	8.85	4.1

^{1/} Includes total milk sold. Excludes milk used on ranch.

^{2/} Monthly totals may not add up to annual totals due to rounding.

CALIFORNIA MILK PRODUCTION, by County

Table 6. Commercial Production of Bulk Milk, Average Milk Fat and Solids Not Fat Test in California, by County and Region, 2001 ^{1/}

County and Region ^{2/}	Bulk Milk			Average Milk Fat Test ^{3/}			Average Solids not Fat Test ^{3/}			State Rank
	Market	Manufacturing	Total	Market	Manufacturing	Total	Market	Manufacturing	Total	
	Thousand Pounds			Percent			Percent			
Butte	13,599	893	14,492	3.86	4.17	3.88	8.99	8.76	8.97	30
Colusa ^{4/}										36
Contra Costa ^{4/}										19
Del Norte	50,394	9,390	59,784	3.69	4.76	3.86	8.79	9.33	8.87	20
Fresno	1,803,236	3,196	1,806,432	3.63	3.61	3.63	8.77	8.81	8.77	8
Glenn	277,019	37,232	314,251	3.68	3.68	3.68	8.74	8.89	8.76	13
Humboldt	188,207	96,112	284,319	3.91	4.50	4.11	8.84	9.18	8.96	14
Kern	1,498,279	5,261	1,503,540	3.70	3.74	3.70	8.72	8.77	8.72	9
Kings	2,733,320	8,006	2,741,326	3.66	3.68	3.66	8.76	8.77	8.76	5
Madera	903,907	4,739	908,646	3.69	4.02	3.69	8.74	8.95	8.74	10
Marin	206,975	861	207,837	3.65	3.71	3.65	8.83	8.85	8.83	15
Mendocino ^{4/}										28
Merced	4,415,779	48,302	4,464,080	3.75	3.75	3.75	8.79	8.80	8.79	2
Monterey	41,135	88	41,223	3.99	4.09	3.99	8.84	8.95	8.84	23
Placer ^{4/}										31
Sacramento	336,880	14,075	350,954	3.79	3.61	3.78	8.76	8.77	8.76	12
San Benito	16,707	0	16,707	3.79		3.79	8.78		8.78	29
San Joaquin	2,105,021	13,798	2,118,819	3.73	3.71	3.73	8.74	8.74	8.74	6
Santa Clara ^{4/}										32
Santa Cruz ^{4/}										37
Shasta ^{4/}										35
Siskiyou	35,402	0	35,402	3.72		3.72	8.80		8.80	25
Solano	31,116	116	31,232	3.80	3.37	3.80	8.81	8.88	8.81	27
Sonoma	652,173	2,319	654,491	3.74	3.99	3.74	8.84	9.00	8.84	11
Stanislaus	3,330,454	42,184	3,372,638	3.73	3.75	3.73	8.77	8.81	8.77	3
Sutter ^{4/}										33
Tehama	94,750	12,814	107,565	3.92	4.21	3.96	8.86	9.17	8.90	17
Tulare	8,381,176	19,700	8,400,876	3.67	3.65	3.67	8.75	8.78	8.75	1
Yolo	36,703	968	37,671	4.23	4.48	4.24	8.96	9.02	8.96	24
Yuba	65,895	9	65,904	4.00	3.98	4.00	8.85	8.83	8.85	18
Northern California	27,350,871	320,307	27,671,179	3.70	4.01	3.70	8.76	8.95	8.77	
Imperial ^{4/}										22
Los Angeles ^{4/}										26
Riverside	2,077,850	1,778	2,079,628	3.60	3.57	3.60	8.70	8.61	8.70	7
San Bernardino	3,146,107	10,894	3,157,001	3.57	3.61	3.57	8.74	8.70	8.74	4
San Diego	123,901	37	123,938	3.43	3.47	3.43	8.70	8.71	8.70	16
San Luis Obispo ^{4/}										34
Santa Barbara	58,933	818	59,751	3.65	3.93	3.65	8.69	8.68	8.69	21
Southern California	5,498,687	13,527	5,512,214	3.59	3.63	3.59	8.73	8.69	8.73	
STATE TOTALS	32,849,558	333,834	33,183,392	3.68	3.99	3.68	8.76	8.94	8.76	

^{1/} Includes total milk sold. Excludes milk used on ranch.

^{2/} Counties omitted have no reported milk production.

^{3/} Tests were computed from unrounded data.

^{4/} Not published, but included in total.



CALIFORNIA MILK PRODUCTION, by County, by Month

Table 7. Commercial Production of All Milk in California,
by Counties and Regions, 2001 ^{1/}

County and Region ^{2/}	January	February	March	April	May	June
	Pounds					
Butte	1,211,030	1,038,426	1,112,406	1,125,089	1,044,001	1,123,665
Colusa ^{3/}						
Contra Costa ^{3/}						
Del Norte	4,916,638	4,431,581	5,297,442	5,428,574	5,469,143	5,283,839
Fresno	149,701,759	138,255,770	153,980,953	151,795,890	156,729,201	150,927,948
Glenn	24,463,445	22,588,014	25,624,422	25,217,213	27,537,642	26,689,767
Humboldt	19,826,673	17,946,754	22,611,084	23,865,626	27,601,797	27,204,150
Kern	126,345,046	117,853,695	132,071,908	128,103,838	125,670,259	120,002,668
Kings	223,783,092	207,659,182	233,932,850	230,773,504	237,407,342	229,697,837
Madera	73,795,660	67,402,607	76,252,502	76,258,366	79,147,837	77,369,963
Marin	18,255,161	16,480,226	17,787,412	17,408,007	18,319,757	17,412,035
Mendocino ^{3/}						
Merced	360,858,178	331,563,274	372,744,365	369,591,181	386,010,447	377,021,179
Monterey	3,537,028	3,083,316	3,472,743	3,831,347	4,003,381	3,608,006
Placer ^{3/}						
Sacramento	29,863,619	26,526,377	29,457,355	29,216,021	30,910,018	29,844,393
San Benito	1,232,967	1,136,072	1,245,361	1,165,555	1,247,838	1,572,620
San Joaquin	173,944,849	160,936,782	176,560,809	172,116,186	181,602,100	178,843,117
Santa Clara ^{3/}						
Santa Cruz ^{3/}						
Shasta ^{3/}						
Siskiyou	2,805,299	2,499,420	2,825,629	2,826,370	2,976,119	2,995,578
Solano	2,636,458	2,323,214	2,671,738	2,641,737	2,697,968	2,595,073
Sonoma	53,321,436	49,089,952	55,577,468	54,180,915	57,421,452	56,416,721
Stanislaus	274,711,864	253,329,249	279,287,832	276,000,391	291,564,810	287,528,460
Sutter ^{3/}						
Tehama	8,825,918	7,592,296	8,545,633	8,524,723	9,227,482	8,893,250
Tulare	682,711,071	646,017,938	730,190,377	717,424,796	730,046,420	699,354,012
Yolo	3,040,263	2,762,044	3,230,934	3,146,200	3,284,972	3,289,573
Yuba	5,380,298	5,122,911	5,661,170	5,625,680	5,777,334	5,533,950
Northern California	2,256,017,153	2,095,814,835	2,351,866,703	2,317,721,945	2,397,452,654	2,324,140,901
Imperial ^{3/}						
Los Angeles ^{3/}						
Riverside	195,148,594	162,500,142	170,480,208	173,504,982	182,562,593	171,595,261
San Bernardino	271,985,625	244,917,349	259,695,931	267,418,928	278,231,982	262,352,248
San Diego	12,039,631	10,828,408	11,314,099	11,212,084	10,145,750	9,555,232
San Luis Obispo ^{3/}						
Santa Barbara	4,377,692	4,009,856	4,314,505	5,041,654	5,669,276	5,580,048
Southern California	492,111,590	429,975,860	454,652,204	465,838,906	485,358,458	456,522,848
STATE TOTALS	2,748,128,743	2,525,790,695	2,806,518,907	2,783,560,851	2,882,811,112	2,780,663,749

^{1/} Includes total milk sold. Excludes milk left on ranch.

^{2/} Counties omitted have no reported milk production.

^{3/} Not published, but included in total.



July	August	September	October	November	December	Total
<i>Pounds</i>						
2,321,107	1,183,181	1,072,833	1,103,265	1,055,492	1,101,454	14,491,949
5,509,847	5,448,014	4,897,142	4,968,919	4,126,868	4,006,176	59,784,183
152,312,647	153,552,565	147,349,331	153,318,337	147,600,064	150,907,378	1,806,431,843
26,754,834	27,281,886	25,675,205	27,807,823	26,908,274	27,702,157	314,250,682
27,477,339	26,410,907	24,126,489	23,883,862	22,104,790	21,259,692	284,319,163
120,648,812	121,007,766	120,504,655	127,741,128	127,420,049	136,169,752	1,503,539,576
229,338,563	232,306,733	222,301,595	233,070,701	228,061,772	232,992,998	2,741,326,169
78,092,924	78,267,281	74,759,568	76,766,995	74,065,147	76,466,897	908,645,747
17,735,920	17,467,408	16,718,219	17,076,272	16,140,659	17,035,461	207,836,537
386,854,955	387,018,941	369,229,556	380,588,163	365,800,377	376,799,648	4,464,080,264
3,706,047	3,808,156	3,282,056	3,057,131	2,933,152	2,900,615	41,222,978
30,240,489	30,331,615	28,529,237	29,361,883	28,178,592	28,494,767	350,954,366
1,658,144	1,579,053	1,510,230	1,512,145	1,402,799	1,444,332	16,707,116
184,257,735	184,999,724	174,613,793	179,132,062	172,601,040	179,210,334	2,118,818,531
3,095,004	3,131,119	3,082,808	3,162,751	2,996,811	3,005,295	35,402,203
2,668,374	2,628,777	2,519,674	2,609,292	2,583,257	2,656,207	31,231,769
57,605,725	56,830,803	54,107,362	54,897,296	51,303,821	53,738,285	654,491,236
292,653,597	293,713,661	279,034,923	286,539,249	275,110,086	283,163,998	3,372,638,120
9,125,115	9,957,596	9,396,916	9,691,283	8,979,575	8,804,769	107,564,556
694,809,691	696,512,732	675,898,935	706,828,301	694,922,218	726,159,654	8,400,876,145
3,274,557	3,228,643	3,124,090	3,169,226	3,009,412	3,111,308	37,671,222
5,573,405	5,582,268	5,412,438	5,492,694	5,312,127	5,429,531	65,903,806
2,346,989,548	2,353,323,847	2,257,746,995	2,342,725,340	2,273,454,588	2,353,924,007	27,671,178,516
175,331,654	172,480,039	165,171,326	170,702,831	168,149,748	172,000,469	2,079,627,847
269,630,067	265,813,560	259,712,156	264,080,553	252,823,823	260,339,043	3,157,001,265
9,864,588	9,679,093	10,407,040	9,890,974	9,421,632	9,579,043	123,937,574
4,653,618	5,567,103	5,248,091	5,333,095	5,133,422	4,822,926	59,751,286
466,394,898	460,557,396	447,420,422	457,061,503	442,379,040	453,940,682	5,512,213,807
2,813,384,446	2,813,881,243	2,705,167,417	2,799,786,843	2,715,833,628	2,807,864,689	33,183,392,323

CALIFORNIA MARKET MILK PRODUCTION, by County, by Month

Table 8. Commercial Production of Market Milk in California,
by Counties and Regions, 2001 ^{1/}

County and Region ^{2/}	January	February	March	April	May	June
<i>Pounds</i>						
Butte	1,131,874	986,692	1,072,228	1,076,503	995,793	1,073,839
Colusa ^{3/}						
Contra Costa ^{3/}						
Del Norte	4,355,620	3,870,563	4,578,794	4,567,269	4,508,465	4,369,252
Fresno	149,424,291	138,218,194	153,666,952	151,654,636	156,347,485	150,343,672
Glenn	21,576,807	20,005,997	22,461,128	21,956,155	24,140,653	23,491,840
Humboldt	13,595,471	12,339,559	15,174,516	15,441,388	17,772,837	17,623,926
Kern	126,290,144	117,807,206	131,698,394	127,762,708	125,507,811	119,128,032
Kings	223,285,253	207,452,198	233,538,289	230,397,201	236,814,726	227,992,449
Madera	73,118,721	67,087,041	76,003,541	75,835,217	78,306,937	76,945,292
Marin	17,985,769	16,442,969	17,637,123	17,125,829	18,284,009	17,384,357
Mendocino ^{3/}						
Merced	357,586,315	329,010,870	369,148,299	366,873,370	381,176,972	371,358,401
Monterey	3,537,028	3,083,316	3,472,743	3,831,347	4,003,381	3,608,006
Placer ^{3/}						
Sacramento	29,082,389	25,661,980	28,354,599	27,820,330	29,127,916	28,426,414
San Benito	1,232,967	1,136,072	1,245,361	1,165,555	1,247,838	1,572,620
San Joaquin	172,821,080	159,957,537	174,862,486	170,138,457	180,877,047	178,083,217
Santa Clara ^{3/}						
Santa Cruz ^{3/}						
Shasta ^{3/}						
Siskiyou	2,805,299	2,499,420	2,825,629	2,826,370	2,976,119	2,995,578
Solano	2,636,458	2,207,243	2,671,738	2,641,737	2,697,968	2,595,073
Sonoma	53,264,880	48,969,282	55,372,212	53,952,375	57,208,560	56,107,565
Stanislaus	272,813,810	249,419,881	275,383,855	274,196,411	287,415,581	284,844,503
Sutter ^{3/}						
Tehama	7,623,889	6,740,537	7,697,076	7,651,825	8,228,842	7,870,209
Tulare	681,609,894	645,474,388	729,096,567	716,672,536	728,493,579	696,217,256
Yolo	2,540,406	2,762,044	3,230,934	3,146,200	3,284,972	3,289,573
Yuba	5,380,298	5,122,911	5,661,170	5,625,680	5,777,334	5,533,950
Northern California	2,234,548,064	2,076,431,635	2,326,577,944	2,293,813,835	2,366,950,159	2,291,788,121
Imperial ^{3/}						
Los Angeles ^{3/}						
Riverside	195,148,594	162,447,213	170,452,381	173,345,333	182,380,145	170,910,711
San Bernardino	271,406,276	244,279,006	259,104,686	266,116,700	277,552,208	261,637,496
San Diego	12,039,631	10,828,408	11,314,099	11,212,084	10,145,750	9,555,232
San Luis Obispo ^{3/}						
Santa Barbara	3,577,295	3,991,937	4,314,505	5,041,654	5,669,276	5,580,048
Southern California	490,731,844	429,266,669	454,033,132	464,377,029	484,496,236	455,123,546
STATE TOTALS	2,725,279,908	2,505,698,304	2,780,611,076	2,758,190,864	2,851,446,395	2,746,911,667

^{1/} Includes total milk sold. Excludes milk left on ranch.

^{2/} Counties omitted have no reported milk production.

^{3/} Not published, but included in total.



July	August	September	October	November	December	Total
<i>Pounds</i>						
2,264,021	1,139,182	1,072,833	1,060,099	1,011,160	715,118	13,599,342
4,573,821	4,537,070	4,058,678	4,153,009	3,407,091	3,414,265	50,393,897
151,978,912	153,437,088	147,075,593	153,114,028	147,205,618	150,769,798	1,803,236,267
23,658,885	24,143,120	23,196,774	24,091,007	23,894,794	24,401,847	277,019,007
17,504,215	17,287,634	15,810,583	15,814,895	14,924,359	14,917,767	188,207,150
120,412,496	120,935,997	119,653,239	127,741,128	125,226,312	136,115,252	1,498,278,719
228,425,876	231,803,406	221,884,842	232,511,366	227,312,234	231,902,354	2,733,320,194
77,855,286	77,901,312	74,460,943	76,494,450	73,765,643	76,132,680	903,907,063
17,735,920	17,427,995	16,701,111	17,076,272	16,138,230	17,035,461	206,975,045
380,532,403	383,139,654	365,220,838	377,160,134	362,942,854	371,628,609	4,415,778,719
3,706,047	3,808,156	3,193,909	3,057,131	2,933,152	2,900,615	41,134,831
28,769,254	29,129,716	27,624,844	28,126,047	27,143,661	27,612,632	336,879,782
1,658,144	1,579,053	1,510,230	1,512,145	1,402,799	1,444,332	16,707,116
183,432,839	184,079,932	173,784,607	178,202,462	170,936,309	177,844,973	2,105,020,946
3,095,004	3,131,119	3,082,808	3,162,751	2,996,811	3,005,295	35,402,203
2,668,374	2,628,777	2,519,674	2,609,292	2,583,257	2,656,207	31,115,798
57,434,551	56,524,497	53,818,515	54,754,566	51,276,953	53,488,684	652,172,640
288,974,571	290,028,850	275,010,958	281,612,163	271,224,491	279,529,092	3,330,454,166
7,785,308	8,934,677	8,445,375	8,754,538	7,927,137	7,090,862	94,750,275
692,967,246	693,294,633	674,940,727	705,531,307	692,488,535	724,388,981	8,381,175,649
3,274,557	2,760,012	3,124,090	3,169,226	3,009,412	3,111,308	36,702,734
5,573,405	5,582,268	5,412,438	5,483,476	5,312,127	5,429,531	65,894,588
2,315,555,852	2,324,212,691	2,232,055,004	2,316,138,054	2,245,901,145	2,326,898,962	27,350,871,466
175,171,808	172,426,899	165,171,326	170,632,170	167,763,010	172,000,469	2,077,850,059
268,668,564	265,284,256	258,190,628	263,600,439	251,933,368	258,333,339	3,146,106,966
9,864,588	9,642,578	10,407,040	9,890,974	9,421,632	9,579,043	123,901,059
4,653,618	5,567,103	5,248,091	5,333,095	5,133,422	4,822,926	58,932,970
465,273,549	459,938,437	445,898,894	456,510,728	441,101,847	451,934,978	5,498,686,889
2,780,829,401	2,784,151,128	2,677,953,898	2,772,648,782	2,687,002,992	2,778,833,940	32,849,558,355



CALIFORNIA MANUFACTURING MILK, by County, by Month

Table 9. Commercial Production of Manufacturing Milk in California, by Counties and Regions, 2001 ^{1/}

County and Region ^{2/}	January	February	March	April	May	June
<i>Pounds</i>						
Butte	79,156	51,734	40,178	48,586	48,208	49,826
Colusa ^{3/}						
Contra Costa ^{3/}						
Del Norte	561,018	561,018	718,648	861,305	960,678	914,587
Fresno	277,468	37,576	314,001	141,254	381,716	584,276
Glenn	2,886,638	2,582,017	3,163,294	3,261,058	3,396,989	3,197,927
Humboldt	6,231,202	5,607,195	7,436,568	8,424,238	9,828,960	9,580,224
Kern	54,902	46,489	373,514	341,130	162,448	874,636
Kings	497,839	206,984	394,561	376,303	592,616	1,705,388
Madera	676,939	315,566	248,961	423,149	840,900	424,671
Marin	269,392	37,257	150,289	282,178	35,748	27,678
Mendocino ^{3/}						
Merced	3,271,863	2,552,404	3,596,066	2,717,811	4,833,475	5,662,778
Monterey						
Placer ^{3/}						
Sacramento	781,230	864,397	1,102,756	1,395,691	1,782,102	1,417,979
San Benito						
San Joaquin	1,123,769	979,245	1,698,323	1,977,729	725,053	759,900
Santa Clara ^{3/}						
Santa Cruz ^{3/}						
Solano		115,971				
Sonoma	56,556	120,670	205,256	228,540	212,892	309,156
Stanislaus	1,898,054	3,909,368	3,903,977	1,803,980	4,149,229	2,683,957
Sutter ^{3/}						
Tehama	1,202,029	851,759	848,557	872,898	998,640	1,023,041
Tulare	1,101,177	543,550	1,093,810	752,260	1,552,841	3,136,756
Yolo	499,857					
Yuba						
Northern California	21,469,089	19,383,200	25,288,759	23,908,110	30,502,495	32,352,780
Imperial ^{3/}						
Los Angeles ^{3/}						
Riverside		52,929	27,827	159,649	182,448	684,550
San Bernardino	579,349	638,343	591,245	1,302,228	679,774	714,752
San Diego						
San Luis Obispo ^{3/}						
Santa Barbara	800,397	17,919				
Southern California	1,379,746	709,191	619,072	1,461,877	862,222	1,399,302
STATE TOTALS	22,848,835	20,092,391	25,907,831	25,369,987	31,364,717	33,752,082

^{1/} Includes total milk sold. Excludes milk left on ranch.

^{2/} Counties omitted have no reported milk production.

^{3/} Not published, but included in total.



July	August	September	October	November	December	Total
<i>Pounds</i>						
57,086	43,999		43,166	44,332	386,336	892,607
936,026	910,944	838,464	815,910	719,777	591,911	9,390,286
333,735	115,477	273,738	204,309	394,446	137,580	3,195,576
3,095,949	3,138,766	2,478,431	3,716,816	3,013,480	3,300,310	37,231,675
9,973,124	9,123,273	8,315,906	8,068,967	7,180,431	6,341,925	96,112,013
236,316	71,769	851,416		2,193,737	54,500	5,260,857
912,687	503,327	416,753	559,335	749,538	1,090,644	8,005,975
237,638	365,969	298,625	272,545	299,504	334,217	4,738,684
	39,413	17,108		2,429		861,492
6,322,552	3,879,287	4,008,718	3,428,029	2,857,523	5,171,039	48,301,545
		88,147				88,147
1,471,235	1,201,899	904,393	1,235,836	1,034,931	882,135	14,074,584
824,896	919,792	829,186	929,600	1,664,731	1,365,361	13,797,585
						115,971
171,174	306,306	288,847	142,730	26,868	249,601	2,318,596
3,679,026	3,684,811	4,023,965	4,927,086	3,885,595	3,634,906	42,183,954
1,339,807	1,022,919	951,541	936,745	1,052,438	1,713,907	12,814,281
1,842,445	3,218,099	958,208	1,296,994	2,433,683	1,770,673	19,700,496
	468,631					968,488
			9,218			9,218
31,433,696	29,111,156	25,691,991	26,587,286	27,553,443	27,025,045	320,307,050
159,846	53,140		70,661	386,738		1,777,788
961,503	529,304	1,521,528	480,114	890,455	2,005,704	10,894,299
	36,515					36,515
						818,316
1,121,349	618,959	1,521,528	550,775	1,277,193	2,005,704	13,526,918
32,555,045	29,730,115	27,213,519	27,138,061	28,830,636	29,030,749	333,833,968

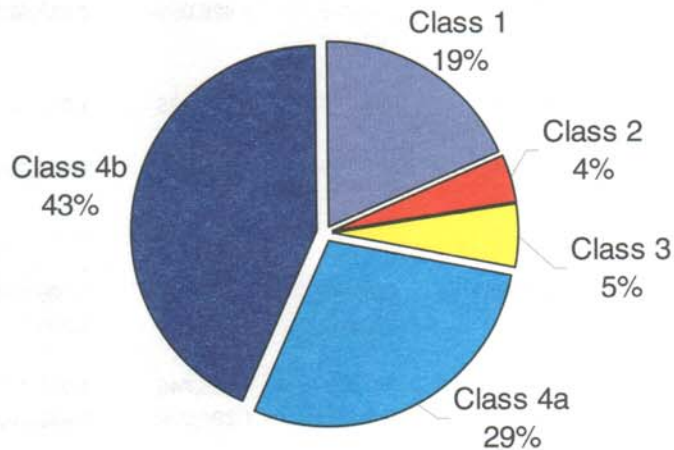




Pooled Milk Utilization

In 2001, utilization of pooled Grade A milk fat and solids-not-fat (SNF) pounds both increased at a rate of 4.7 percent, as compared to the previous year. In addition, as compared to 2000, the breakdown of the utilization of the following classes of milk pounds on a total solids basis were as follows: Class 1, fluid dairy products (decreased 0.45 percent); Class 2, soft dairy products (decreased 1.2 percent); Class 3, frozen dairy products (increased 1.3 percent); Class 4a, butter and powder (decreased 2.5 percent); and Class 4b, cheese (increased 14 percent).

**Utilization of Milk in California
by Class, 2001**



QUOTA TRANSFER SUMMARY

Summary of Quota Transfers and Sales
Based on Solids-Not-Fat, 1997-2001

	Number of Sellers	Number of Buyers	Average Price ^{1/} (dollars)	SNF Transferred (pounds)	Average Ratio
1997	90	92	\$303	52,242	2.45
1998	107	137	\$323	76,122	2.45
1999	63	93	\$386	77,278	2.44
2000	73	110	\$410	71,276	2.41
2001	58	92	\$421	54,321	2.44

^{1/} Sales without cows.



POOLED MILK UTILIZATION

**Table 10. Utilization of Pooled Milk Fat, in California
by Class, by Year, 1997-2001** ^{1/ 2/ 3/}

Year	Class 1	Class 2	Class 3	Class 4a	Class 4b	Fat Total	Fat \$ Value	Quota ^{4/}	Non Quota
<i>Thousand Pounds</i>									
1997	134,400	54,346	105,025	339,391	331,390	964,551	\$1,148,821,466	332,191	632,360
1998	142,592	57,323	114,232	322,066	350,517	986,730	\$1,752,402,667	342,757	643,973
1999	141,418	56,923	106,939	385,187	400,301	1,090,769	\$1,448,145,114	346,073	744,695
2000	146,495	60,418	125,855	384,092	445,695	1,162,554	\$1,428,110,493	345,693	816,862
2001	145,359	63,274	126,854	369,661	512,567	1,217,716	\$2,221,965,889	353,386	864,329

^{1/} Data are subject to revision.

^{2/} Includes pooled milk only. Excludes exempt, non pool, grade B milk and bulk milk shipped out of California.

^{3/} Class usage has been adjusted for plant gain and inventory variance.

^{4/} Includes other source milk, effective July 1, 1997.

**Table 11. Utilization of Pooled Milk Solids Not Fat,
in California by Class, by Year, 1997-2001** ^{1/ 2/ 3/}

Year	Class 1	Class 2	Class 3	Class 4a	Class 4b	SNF Total	SNF \$ Value	Quota ^{4/}	Non Quota
<i>Thousand Pounds</i>									
1997	586,839	102,780	78,322	674,532	880,791	2,323,263	\$2,323,215,262	807,980	1,515,283
1998	609,021	105,963	80,934	629,288	928,321	2,353,528	\$2,353,527,761	831,359	1,522,169
1999	610,396	109,337	88,420	781,071	1,017,703	2,606,926	\$2,606,926,225	837,470	1,769,456
2000	619,363	114,992	87,204	821,340	1,120,843	2,763,740	\$2,214,494,836	837,899	1,925,876
2001	617,076	110,026	88,959	805,123	1,273,808	2,894,992	\$2,401,731,486	859,272	2,035,720

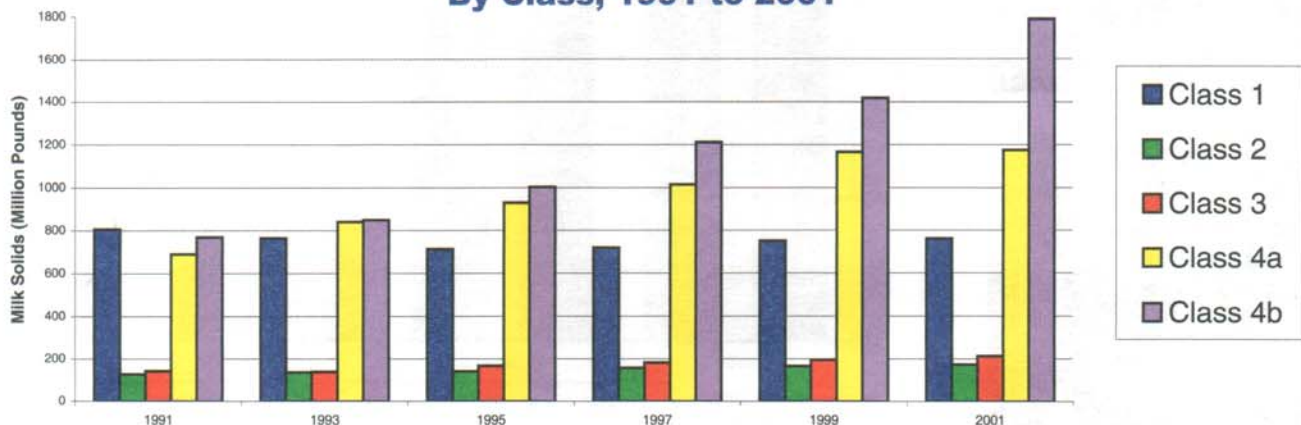
^{1/} Data are subject to revision.

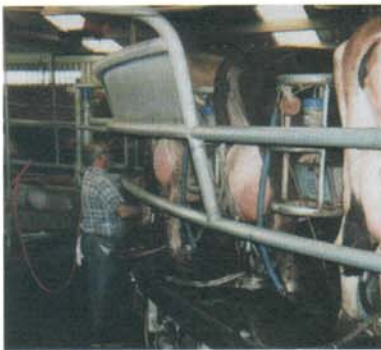
^{2/} Includes pooled milk only. Excludes exempt, non pool, grade B milk and bulk milk shipped out of California.

^{3/} Class usage has been adjusted for plant gain and inventory variance.

^{4/} Includes other source milk, effective July 1, 1997.

**Use of Total Pool Milk Solids in California,
By Class, 1991 to 2001**





Sales of Class 1 Market Milk Products

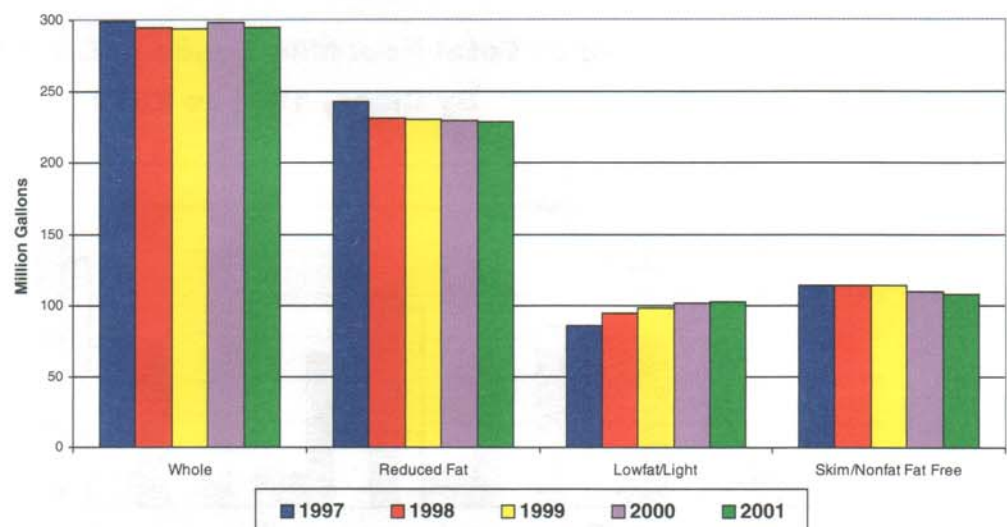
For the year 2001, overall Class 1 sales were down 0.7 percent and the statistical trends mirrored familiar patterns of the past: whole milk sales were down; reduced fat milk sales continued to fall; lowfat/light milk sales continued to climb; and skim/nonfat/fat-free milk sales continued to decrease slightly. Whole milk sales reflected 1998 levels and skim/nonfat/fat-free milk sales reflected 1996 totals. Reduced fat milk sales reached their lowest level to date and in contrast, lowfat/light milk sales reached their peak in 2001. The continued decline of reduced fat sales mirrors the introduction of lowfat milk and its continuous growth.

Sales of fluid Class 1 products made up 98 percent of all Class 1 sales, 40 percent whole, 30 percent reduced fat, 14 percent lowfat, and 14 percent skim.

Fluid Milk Composition

	Fat	SNF
Whole	3.5	8.7
Reduced Fat	2.0	10.0
Lowfat	1.0	11.0
Skim	0.1	9.0

Sales of Fluid Class 1 Market Milk Products California, 1997-2001



CLASS 1 SALES

Table 12. Sales of Class 1 Market Milk Products
in California, by Year, 1997-2001 ^{1/}

Year	Whole Milk	Reduced Fat Milk	Lowfat/Light Milk	Skim/Nonfat Fat-Free Milk	Subtotal Beverage Milks	Half and Half	Total Class 1 ^{2/}	Total Class 1 Milk Change From Prior Year
<i>Thousand Gallons</i>					<i>Percent</i>			
1997	299,164	242,078	86,129	113,982	741,354	10,637	752,500	0.0
1998	294,670	230,819	94,754	114,546	734,789	11,324	746,409	-0.8
1999	294,421	229,583	97,948	113,677	735,629	12,768	748,682	0.3
2000	297,815	229,453	102,128	110,540	739,936	13,002	753,217	0.6
2001	294,777	227,821	103,897	107,892	734,386	13,318	747,708	-0.7
1998								
January	25,085	19,985	8,028	9,878	62,976	898	63,894	0.1
February	23,221	18,173	7,560	9,204	58,158	860	59,044	1.8
March	25,080	20,053	8,503	10,236	63,872	940	64,842	0.4
April	23,897	18,731	7,755	9,356	59,739	919	60,688	-1.2
May	24,135	19,154	8,171	9,787	61,247	925	62,205	-2.8
June	24,405	18,880	7,516	9,197	59,998	950	60,976	1.2
July	24,693	18,887	7,248	8,892	59,720	912	60,649	-1.6
August	24,501	18,844	7,294	8,880	59,518	880	60,431	-3.4
September	24,712	19,498	8,298	9,933	62,441	927	63,392	-2.3
October	25,324	20,038	8,644	10,289	64,295	981	65,292	-0.9
November	23,689	18,611	7,773	9,362	59,435	999	60,453	-1.9
December	25,929	19,964	7,964	9,533	63,390	1,133	64,542	1.1
1999								
January	24,194	19,085	8,056	9,747	61,082	924	62,043	-2.9
February	22,573	17,826	7,559	9,182	57,138	954	58,116	-1.6
March	25,300	20,044	8,618	10,473	64,436	1,078	65,546	1.1
April	24,264	19,066	8,044	9,608	60,982	1,084	62,086	2.3
May	24,442	19,211	8,319	9,776	61,748	1,033	62,803	1.0
June	23,981	18,511	7,579	8,986	59,057	1,034	60,112	-1.4
July	25,052	19,176	7,588	8,861	60,678	1,043	61,735	1.8
August	25,773	19,488	7,662	8,735	61,657	1,093	62,771	3.9
September	25,004	19,236	8,759	9,590	62,589	1,104	63,714	0.5
October	24,300	19,442	8,715	9,905	62,362	1,097	63,483	-2.8
November	24,081	18,917	8,568	9,559	61,126	1,145	62,292	3.0
December	25,457	19,579	8,480	9,256	62,772	1,179	63,980	-0.9
2000								
January	24,553	19,102	8,661	9,609	61,924	1,035	63,002	1.5
February	24,003	18,412	8,276	9,368	60,059	1,041	61,118	5.2
March	25,923	20,077	9,189	10,139	65,328	1,113	66,461	1.4
April	23,365	18,187	8,015	8,883	58,449	989	59,456	-4.2
May	24,683	19,321	8,891	9,750	62,645	1,029	63,695	1.4
June	24,582	18,840	7,952	8,941	60,315	1,049	61,378	2.1
July	24,570	18,890	7,656	8,161	59,277	1,019	60,316	-2.3
August	25,256	19,212	8,116	8,538	61,121	1,079	62,227	-0.9
September	25,378	19,569	9,157	9,568	63,672	1,061	64,772	1.7
October	25,095	19,426	9,231	9,489	63,241	1,137	64,400	1.4
November	24,877	18,994	8,627	9,191	61,690	1,250	62,964	1.1
December	25,530	19,425	8,357	8,902	62,215	1,201	63,428	-0.9
2001								
January	24,935	19,260	8,764	9,425	62,384	1,098	63,482	0.8
February	22,898	17,780	8,372	8,535	57,585	1,060	58,645	-4.0
March	26,190	20,158	9,582	10,064	65,993	1,183	67,177	1.1
April	23,946	18,323	8,537	8,857	59,663	1,093	60,757	2.2
May	24,335	18,842	9,176	9,414	61,767	1,115	62,883	-1.3
June	24,679	18,848	8,212	8,811	60,550	1,063	61,613	0.4
July	24,275	18,684	7,552	8,034	58,544	1,079	59,623	-1.1
August	25,176	19,362	8,079	8,418	61,035	1,108	62,144	-0.1
September	24,019	18,970	8,817	9,218	61,024	1,023	62,048	-4.2
October	24,864	19,495	9,464	9,870	63,692	1,099	64,792	0.6
November	24,443	18,931	8,845	8,825	61,044	1,143	62,187	-1.2
December	25,017	19,168	8,497	8,422	61,104	1,253	62,357	-1.7

^{1/} Monthly totals may not add up to annual totals due to rounding.

^{2/} Miscellaneous Class 1 Products are included in the total. See Table 13 for annual total of miscellaneous Class 1 products.

CLASS 1 SALES

Table 13. Sales of Selected Class 1 Products in California, by Marketing Areas, 1997-2001

Products & Marketing Areas	1997	1998	SALES		
			1999	2000	2001
			Gallons		
Whole Milk					
Northern California	106,205,641	109,128,650	111,175,937	112,947,792	109,094,532
Southern California	192,958,244	185,541,612	183,245,299	184,867,122	185,682,127
State Total	299,163,885	294,670,262	294,421,236	297,814,914	294,776,659
Reduced Fat Milk					
Northern California	98,460,584	97,896,216	97,614,576	97,036,423	93,346,942
Southern California	143,617,686	132,922,404	131,968,040	132,416,984	134,473,805
State Total	242,078,270	230,818,620	229,582,616	229,453,407	227,820,747
Lowfat/Light Milk					
Northern California	45,769,013	47,968,093	48,881,636	51,171,432	51,830,532
Southern California	40,360,445	46,785,488	49,066,163	50,956,587	52,066,034
State Total	86,129,458	94,753,581	97,947,799	102,128,019	103,896,566
Skim/Nonfat/Fat Free Milk					
Northern California	46,390,276	47,862,174	46,769,535	44,854,948	42,469,526
Southern California	67,592,064	66,684,238	66,907,663	65,684,742	65,422,657
State Total	113,982,340	114,546,412	113,677,198	110,539,690	107,892,183
Beverage Milks Subtotal					
Northern California	296,825,514	302,855,133	304,441,684	306,010,595	296,741,532
Southern California	444,528,439	431,933,742	431,187,165	433,925,435	437,644,623
State Total	741,353,953	734,788,875	735,628,849	739,936,030	734,386,155
Half and Half					
Northern California	5,704,675	5,836,994	6,590,954	6,974,895	6,788,978
Southern California	4,931,893	5,486,791	6,177,145	6,027,565	6,528,812
State Total	10,636,568	11,323,785	12,768,099	13,002,460	13,317,790
Miscellaneous Class 1					
Northern California	422,038	257,180	275,699	265,034	3,943
Southern California	87,141	39,515	9,077	13,793	475
State Total	509,179	296,695	284,776	278,827	4,418
TOTAL CLASS 1					
Northern California	302,952,227	308,949,307	311,308,337	313,250,524	303,534,453
Southern California	449,547,473	437,460,048	437,373,387	439,966,793	444,173,910
STATE TOTALS	752,499,700	746,409,355	748,681,724	753,217,317	747,708,363





Manufacture of Dairy Products

California continues to lead the nation in the production of many manufactured dairy products, such as: butter, nonfat dry milk (NFD), dry buttermilk, and whey protein concentrate (WPC).

Class 2 (Soft Dairy Products):

Total cottage cheese production declined 2.3 percent to 98.4 million pounds. Yogurt production continued to grow with an increase of 2.9 percent over 2000, to 29.3 million gallons. Sour cream and sour cream dressing production increased 14.6 percent to 22 million gallons. Buttermilk and other cream both showed a slight decline of 2.1 and 3.5 percent respectively.

Class 3 (Frozen Dairy Products):

For 2001, total frozen products increased 3.2 percent to 168.6 million gallons. The shares of the total frozen product production were as follows: 74 percent ice cream, 18 percent ice milk, 4 percent sherbet, and 4 percent frozen yogurt.

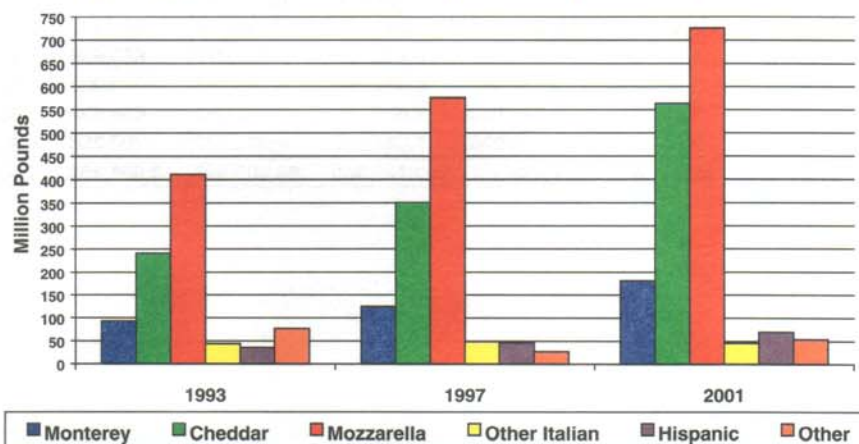
Class 4a (Butter and Nonfat Dry Milk):

The steady growth trend in butter production stopped with an actual decline in 2001 of 5.3 percent to 341 million pounds. If this trend continues, California will become the second ranking producer of butter. The steady growth in NFD production slowed to an increase of 0.2 percent, in sharp contrast to last year's increase of 6.3 percent.

Class 4b (Cheese and Whey Byproducts):

Class 4b production continues to grow at a faster rate than the other four classes of milk. The year 2001 showed a 10 percent increase in total cheese production to a record 1.64 billion pounds. The shares of total cheese production were: Mozzarella at 44 percent (up 7 percent), Cheddar at 34 percent (up 13 percent), Monterey at 11 percent (up 11 percent), Hispanic at 4 percent (up 8 percent), Other Italian at 3 percent (up 2 percent), and All Other Cheeses at 3 percent (up 10 percent).

**California Cheese Production
by Type of Cheese, 1993, 1997, 2001**



CLASS 2 PRODUCTION

Table 14. Production of Class 2 Products in California, 1997-2001

Month	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Dry Curd Cottage Cheese						Cottage Cheese				
	<i>Pounds</i>					<i>Pounds</i>				
Jan	4,440,650	4,140,153	4,891,776	4,068,976	3,199,940	2,640,818	2,533,987	2,611,311	2,820,982	2,571,161
Feb	4,316,872	4,017,726	3,937,163	4,083,180	3,338,967	2,462,080	2,452,261	2,533,273	2,793,239	2,501,869
Mar	4,215,884	4,711,136	5,009,274	4,440,481	3,551,157	2,585,722	2,916,028	3,162,680	2,972,432	2,657,663
Apr	4,355,300	4,318,445	4,403,351	3,999,603	3,348,254	2,586,864	2,649,500	2,920,229	2,708,378	2,554,865
May	4,859,676	4,697,136	4,438,328	4,397,510	3,820,842	2,758,136	2,807,971	2,754,099	2,950,305	3,023,637
Jun	4,535,742	4,599,086	4,820,840	4,348,146	3,235,261	2,673,042	2,822,636	3,103,636	3,035,702	2,565,171
Jul	4,571,760	4,751,501	4,623,984	3,828,581	3,590,079	2,737,989	3,022,655	2,950,478	2,658,627	2,951,259
Aug	4,468,368	4,725,370	4,672,257	4,619,148	3,639,714	2,838,181	2,848,432	2,992,818	2,993,890	2,835,958
Sep	4,702,632	4,930,694	4,457,869	4,258,920	3,185,898	2,720,110	2,921,810	2,874,106	2,745,089	2,512,816
Oct	4,731,467	4,627,642	4,540,695	4,156,141	3,518,159	2,788,391	2,874,223	2,942,017	2,785,358	2,777,301
Nov	3,964,608	4,330,298	4,129,912	3,006,737	3,076,941	2,833,777	2,625,167	2,734,132	2,602,800	2,481,179
Dec	3,829,600	4,356,412	3,595,210	3,476,264	2,752,427	2,565,019	2,772,021	2,486,653	2,429,192	2,257,206
Total	52,992,559	54,205,599	53,520,659	48,683,687	40,257,639	32,190,129	33,246,691	34,065,432	33,495,994	31,690,085
Lowfat Cottage Cheese						Nonfat Cottage Cheese				
	<i>Pounds</i>					<i>Pounds</i>				
Jan	3,515,847	3,631,423	3,769,481	4,215,353	4,364,521	1,551,074	1,433,048	1,340,170	1,149,489	1,031,904
Feb	3,271,629	3,656,337	3,632,721	4,401,917	4,354,491	1,399,704	1,412,718	1,233,811	1,229,703	991,764
Mar	3,625,698	4,243,629	4,581,976	4,634,141	4,568,775	1,468,834	1,595,783	1,622,884	1,260,617	1,132,537
Apr	3,608,277	3,954,900	4,092,427	4,354,979	4,431,332	1,564,548	1,494,762	1,364,953	1,171,203	1,087,924
May	4,004,964	4,157,163	3,951,522	4,950,314	5,096,812	1,628,807	1,564,314	1,270,195	1,259,637	1,282,756
Jun	3,733,443	4,061,760	4,519,436	4,648,516	4,426,629	1,524,287	1,380,770	1,472,444	1,186,840	1,035,860
Jul	3,945,054	4,299,314	4,648,671	4,302,965	4,735,840	1,655,721	1,652,581	1,480,001	1,040,388	1,182,501
Aug	3,989,088	4,092,092	4,711,042	4,984,704	4,836,160	1,568,809	1,455,320	1,506,962	1,267,568	1,228,158
Sep	4,063,618	4,006,469	4,571,445	4,543,588	4,313,876	1,679,920	1,546,662	1,450,810	1,127,848	1,024,185
Oct	4,102,139	4,232,051	4,661,779	4,596,042	4,789,110	1,605,666	1,412,123	1,400,701	1,132,905	1,173,854
Nov	4,100,230	3,728,277	4,259,848	4,142,126	4,071,515	1,349,203	1,311,227	1,251,568	1,057,336	941,348
Dec	3,436,227	3,976,768	3,685,255	3,693,698	3,700,711	1,363,844	1,391,632	1,101,318	921,437	917,310
Total	45,396,214	48,040,183	51,085,603	53,468,343	53,689,772	18,360,417	17,650,940	16,495,817	13,804,971	13,030,101
Total Cottage Cheese						Buttermilk				
	<i>Pounds</i>					<i>Gallons</i>				
Jan	7,707,739	7,598,458	7,720,962	8,185,824	7,967,586	638,022	628,724	621,974	655,557	667,528
Feb	7,133,413	7,521,316	7,399,805	8,424,859	7,848,124	621,056	612,625	602,524	658,934	551,774
Mar	7,680,254	8,755,440	9,367,540	8,867,190	8,358,975	695,443	722,875	690,137	744,874	724,323
Apr	7,759,689	8,099,162	8,377,609	8,234,560	8,074,121	660,090	647,433	640,651	690,987	689,630
May	8,391,907	8,529,448	7,975,816	9,160,256	9,403,205	695,793	740,349	649,492	695,672	718,919
Jun	7,930,772	8,265,166	9,095,516	8,871,058	8,027,660	662,879	658,921	655,422	698,834	681,433
Jul	8,338,764	8,974,550	9,079,150	8,001,980	8,869,600	692,674	696,417	640,946	674,367	679,750
Aug	8,396,078	8,395,844	9,210,822	9,246,162	8,900,276	686,442	661,395	649,888	728,231	698,150
Sep	8,463,648	8,474,941	8,896,361	8,416,525	7,850,877	659,536	674,847	636,568	657,843	662,210
Oct	8,496,196	8,518,397	9,004,497	8,514,305	8,740,265	673,935	685,030	660,142	711,213	674,472
Nov	8,283,210	7,664,671	8,245,548	7,802,262	7,494,042	698,532	666,991	672,303	708,372	719,909
Dec	7,365,090	8,140,421	7,273,226	7,044,327	6,875,227	706,756	658,443	685,315	717,460	695,706
Total	95,946,760	98,937,814	101,646,852	100,769,308	98,409,958	8,091,158	8,054,050	7,805,362	8,342,344	8,163,804

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CLASS 2 PRODUCTION - Continued

Table 14 Continued: Production of Class 2 Products in California, 1997-2001

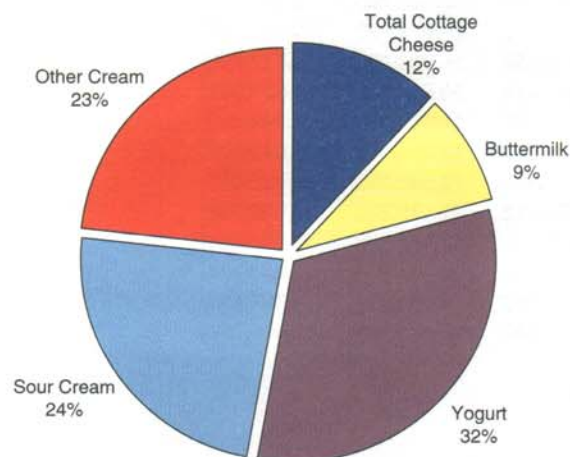
Month	1997 ^{1/}	1998	1999	2000	2001	1997	1998	1999	2000	2001
Yogurt Sales ^{2/}						Yogurt Production				
	<i>Gallons</i>					<i>Gallons</i>				
Jan	1,712,273					1,770,561	2,095,977	2,337,756	2,328,900	
Feb	1,691,647					1,868,790	2,059,444	2,581,825	2,176,315	
Mar	1,937,172					1,950,942	2,453,484	2,653,961	2,611,364	
Apr	1,772,210					1,757,910	2,099,854	2,373,395	2,590,920	
May	1,892,979					1,740,942	2,329,072	2,641,122	2,837,074	
Jun	1,730,285					1,738,182	2,225,384	2,456,243	2,561,124	
Jul	1,701,253					1,728,269	2,106,504	2,174,418	2,614,971	
Aug	1,970,266					1,985,903	2,459,776	2,649,323	2,419,673	
Sep						1,858,054	2,035,320	2,363,433	2,513,232	2,589,796
Oct						1,754,884	2,055,361	2,287,914	2,248,768	2,545,236
Nov						1,433,115	1,669,174	2,014,297	1,957,911	2,033,751
Dec						1,573,504	1,961,156	1,976,348	1,988,830	2,083,314
Total	14,408,085	0	0	0	0	6,619,557	22,262,510	26,471,487	28,576,784	29,392,438
Sour Cream & Sour Cream Dressing						Other Cream				
	<i>Gallons</i>					<i>Gallons</i>				
Jan	1,230,094	1,264,657	1,241,644	1,464,176	1,591,628	1,229,895	1,301,325	1,666,946	1,652,704	1,705,122
Feb	1,241,489	1,287,741	1,276,637	1,344,120	1,343,212	1,393,295	1,350,567	1,692,374	1,731,289	1,622,424
Mar	1,455,444	1,510,250	1,596,376	1,526,809	1,651,207	1,588,301	1,448,846	1,979,584	1,919,674	1,754,682
Apr	1,279,904	1,448,085	1,379,766	1,550,882	1,675,252	1,510,187	1,593,544	1,954,569	1,829,788	1,601,893
May	1,468,051	1,502,499	1,509,812	1,659,034	1,775,985	1,555,797	1,703,843	1,878,669	1,914,200	1,677,379
Jun	1,384,129	1,598,243	1,580,088	1,621,458	2,024,357	1,546,098	1,678,017	1,845,780	1,936,977	1,685,620
Jul	1,372,642	1,458,779	1,427,768	1,409,288	1,530,427	1,724,153	1,819,245	1,851,074	1,755,234	1,618,062
Aug	1,382,988	1,370,661	1,581,337	1,734,355	1,672,888	1,587,152	1,495,019	1,859,085	1,885,127	1,713,744
Sep	1,313,995	1,446,652	1,530,815	1,516,973	1,822,643	1,501,935	1,496,192	1,769,105	1,704,542	1,526,372
Oct	1,497,422	1,338,049	1,521,949	1,634,416	2,418,035	3,094,706	1,689,213	1,862,280	1,812,726	1,828,738
Nov	1,636,733	1,709,075	1,801,492	1,946,348	2,599,834	3,078,379	1,671,150	2,103,560	2,238,506	2,442,229
Dec	1,474,304	1,739,816	1,741,117	1,796,607	1,921,962	1,913,791	1,858,437	1,795,593	1,821,529	2,245,413
Total	16,737,195	17,674,507	18,188,801	19,204,466	22,027,430	21,723,689	19,105,398	22,258,619	22,202,296	21,421,678

^{1/} Prior to September 1997, yogurt reported as sales.

^{2/} Includes out of state sales.

^{3/} Yogurt reported as production since September 1997.

Class 2 Products in 2001



CLASS 3 PRODUCTION

Table 15. Production of Class 3 Products in California, 1997-2001

Month	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Ice Cream					Ice Milk ^{1/}					
	Gallons					Gallons				
Jan	7,213,305	6,550,412	6,699,006	6,256,583	8,178,988	2,223,688	1,981,943	1,947,467	1,940,035	2,037,135
Feb	7,750,700	8,167,784	8,274,693	9,181,476	8,838,827	2,228,164	2,214,796	2,024,195	2,119,082	2,074,568
Mar	9,800,628	10,439,699	10,110,694	10,735,985	12,156,413	2,608,242	2,678,914	2,667,290	2,660,509	2,612,607
Apr	10,083,395	10,220,092	10,812,213	10,882,246	11,448,912	2,775,402	2,923,329	2,600,226	2,823,492	2,893,399
May	11,112,408	10,024,147	11,548,117	11,988,851	12,366,647	2,636,844	2,840,564	2,874,893	3,049,063	3,019,615
Jun	12,128,916	11,237,205	14,208,437	12,851,834	13,568,068	3,206,953	4,062,686	3,498,290	3,393,441	3,293,783
Jul	11,340,875	11,388,020	13,265,859	11,817,934	11,598,900	2,850,081	3,607,295	3,322,150	3,007,784	2,968,007
Aug	10,674,421	11,245,395	12,027,289	11,844,433	12,584,928	3,415,208	3,728,629	2,733,620	3,178,474	3,001,724
Sep	9,065,192	10,721,316	9,603,135	10,718,609	10,609,713	2,757,163	2,767,433	2,770,217	2,474,820	2,361,011
Oct	7,410,188	7,671,561	8,448,320	8,947,819	9,379,516	2,641,281	2,017,676	2,425,654	2,382,419	2,319,530
Nov	6,667,610	6,512,674	8,037,029	7,219,481	7,626,568	2,067,522	2,042,523	2,012,498	1,864,039	1,892,926
Dec	6,424,870	6,386,618	6,573,065	6,196,948	6,343,752	2,038,106	1,985,860	2,167,657	1,925,675	1,809,039
Total	109,672,508	110,564,922	119,607,855	118,642,199	124,701,232	31,448,656	32,851,648	31,044,159	30,818,832	30,283,345
Sherbet					Frozen Yogurt ^{2/}					
	Gallons					Gallons				
Jan	365,187	492,690	504,542	479,942	403,203	723,598	600,008	496,880	291,251	511,477
Feb	471,529	471,150	623,477	619,643	516,680	863,938	666,069	425,114	402,664	547,368
Mar	603,604	690,515	799,381	856,001	686,401	943,173	860,648	639,014	623,598	645,355
Apr	649,955	668,582	731,192	685,648	605,809	910,818	791,187	670,550	540,792	669,605
May	752,784	642,492	845,916	713,405	773,536	1,034,533	706,134	646,488	796,499	677,754
Jun	764,171	789,828	941,591	825,459	778,075	1,080,328	776,150	728,422	700,918	662,742
Jul	632,924	825,198	854,176	708,622	797,464	942,352	849,714	696,238	679,730	685,030
Aug	565,791	848,705	888,934	818,519	674,907	790,205	913,826	548,134	755,168	658,461
Sep	485,736	660,494	594,940	615,229	591,507	1,032,592	789,022	457,320	611,174	470,378
Oct	472,210	530,283	573,191	466,649	466,670	756,923	603,901	412,142	476,509	494,685
Nov	360,945	426,066	521,157	259,971	398,721	560,707	505,981	355,104	438,154	417,912
Dec	266,367	331,384	217,086	250,256	260,945	537,870	389,906	307,080	353,094	290,106
Total	6,391,203	7,377,387	8,095,583	7,299,344	6,953,918	10,177,037	8,452,546	6,382,488	6,669,552	6,730,872
Total Frozen Products										
	Gallons									
Jan	10,525,779	9,625,052	9,647,895	8,967,812	11,130,803					
Feb	11,314,331	11,519,799	11,347,479	12,322,865	11,977,443					
Mar	13,955,647	14,669,777	14,216,379	14,876,093	16,100,777					
Apr	14,419,570	14,603,190	14,814,182	14,932,177	15,617,725					
May	15,536,569	14,213,337	15,915,414	16,547,819	16,837,551					
Jun	17,180,368	16,865,869	19,376,740	17,771,653	18,302,668					
Jul	15,766,232	16,670,227	18,138,423	16,214,070	16,049,402					
Aug	15,445,625	16,736,554	16,197,978	16,596,595	16,920,020					
Sep	13,340,684	14,938,265	13,425,612	14,419,832	14,032,608					
Oct	11,280,603	10,823,421	11,859,308	12,273,396	12,660,401					
Nov	9,656,783	9,487,245	10,925,788	9,781,644	10,336,128					
Dec	9,267,214	9,093,768	9,264,888	8,725,973	8,703,841					
Total	157,689,404	159,246,503	165,130,085	163,429,927	168,669,367					

^{1/} Includes Light Dairy Dessert and Nonfat Ice Cream.

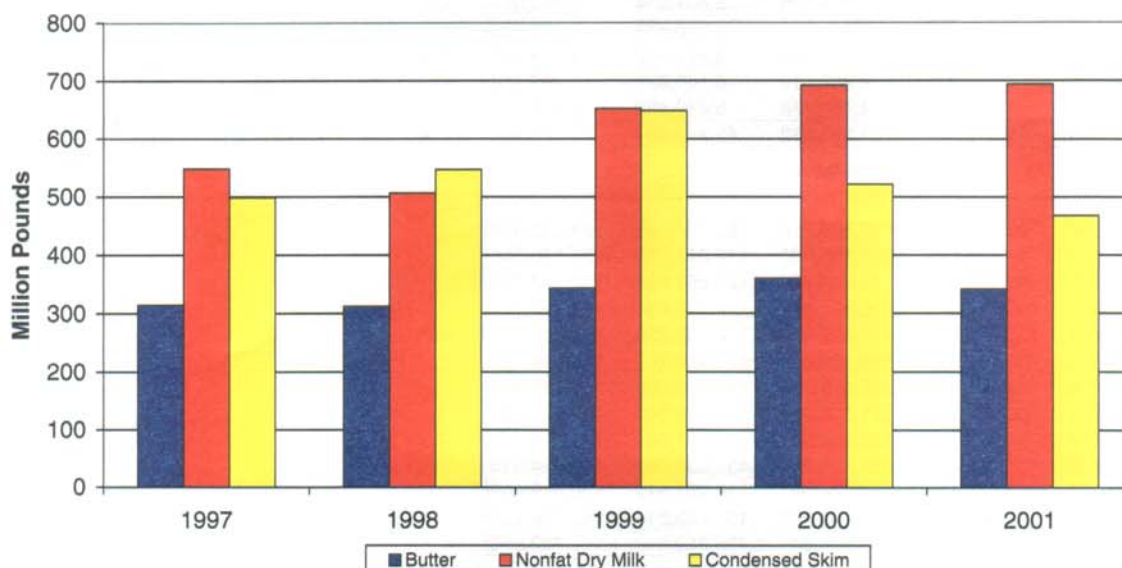
^{2/} Includes nonfat and reduced fat yogurts.

CLASS 4a PRODUCTION

Table 16. Production of Class 4a Products in California, 1997-2001

Month	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Butter					Nonfat Dry Milk for Human Consumption					
	<i>Pounds</i>					<i>Pounds</i>				
Jan	34,085,356	35,635,316	33,502,564	37,961,355	35,428,036	39,817,501	47,169,059	52,372,596	64,688,853	59,171,765
Feb	25,959,895	26,545,912	30,856,350	34,983,266	31,915,132	36,061,587	37,593,560	46,622,594	59,591,802	54,361,886
Mar	26,598,507	27,926,947	33,313,731	34,852,626	30,157,259	47,350,166	42,065,641	57,108,002	59,338,263	58,591,525
Apr	33,371,582	28,807,335	31,749,069	31,272,401	28,768,712	53,309,175	46,885,726	60,575,269	62,879,474	60,317,112
May	28,149,157	27,432,089	30,775,161	30,821,795	26,867,027	50,294,434	48,520,566	60,673,485	60,636,502	61,772,603
Jun	21,521,370	17,887,861	21,452,978	23,088,248	23,176,681	48,198,148	41,877,952	52,800,820	57,496,620	59,235,508
Jul	23,590,725	16,454,476	17,797,187	22,868,521	23,516,102	50,437,763	41,255,157	49,652,818	58,795,556	57,043,820
Aug	20,803,424	19,193,841	22,795,746	23,515,480	22,977,605	46,138,383	37,247,245	52,381,665	50,380,206	54,838,286
Sep	24,492,913	19,238,858	25,482,050	27,112,795	23,153,873	40,651,000	34,162,421	49,830,503	51,971,818	52,961,734
Oct	26,132,068	30,532,778	29,089,780	29,947,209	30,191,579	44,547,431	41,544,323	50,983,164	53,916,497	55,292,096
Nov	23,805,530	28,784,471	30,589,389	30,100,823	29,136,065	44,032,328	39,467,734	54,760,663	54,458,312	57,298,180
Dec	25,696,843	34,310,297	35,985,006	33,488,022	35,815,198	47,673,656	49,345,406	64,276,917	58,800,133	63,574,804
Total	314,207,370	312,750,181	343,389,011	360,012,541	341,103,269	548,511,572	507,134,790	652,038,496	692,954,036	694,459,319
Nonfat Dry Milk for Animal Consumption					Condensed Skim Bulk					
	<i>Pounds</i>					<i>Pounds</i>				
Jan	177,908	177,394	178,997	288,364	261,757	36,916,606	40,881,831	55,774,996	47,685,321	44,431,226
Feb	130,774	127,777	119,160	264,238	132,197	35,086,316	35,481,327	54,721,297	44,483,568	38,277,196
Mar	194,239	160,077	209,801	265,239	161,550	40,429,208	45,193,527	62,996,873	47,385,038	40,925,531
Apr	166,525	109,270	206,452	250,673	176,163	43,415,623	42,614,759	57,224,672	40,525,456	39,374,343
May	217,644	160,184	265,376	334,838	211,233	47,631,454	45,270,287	58,336,776	42,926,692	40,252,145
Jun	232,907	142,025	279,120	319,772	181,872	45,238,660	43,151,999	53,186,638	42,067,395	38,557,223
Jul	250,523	182,620	225,604	371,375	152,009	46,622,077	48,320,215	52,143,700	43,210,463	39,225,813
Aug	260,677	147,486	227,303	279,443	253,244	43,946,548	48,730,904	54,308,884	45,693,592	39,652,870
Sep	162,794	172,275	278,548	195,740	180,224	43,505,400	52,781,263	51,903,120	40,994,616	40,236,855
Oct	189,397	144,463	220,299	158,163	185,196	38,654,999	49,795,861	50,494,320	42,414,681	41,339,998
Nov	189,874	171,757	280,391	194,788	101,593	39,329,397	47,814,195	48,419,929	41,912,470	34,070,215
Dec	151,490	156,648	240,957	211,257	234,523	38,670,842	47,678,418	48,700,911	43,091,911	32,384,609
Total	2,324,752	1,851,976	2,732,008	3,133,890	2,231,561	499,447,130	547,714,586	648,212,116	522,391,203	468,728,024

Class 4a Products in 2001



CLASS 4b PRODUCTION

Table 17. Production of Class 4b Products in California, 1997-2001

Month	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Monterey Jack Cheese						Cheddar Cheese				
	<i>Pounds</i>					<i>Pounds</i>				
Jan	8,777,408	9,911,256	11,225,114	13,056,672	13,705,536	27,788,346	28,258,226	37,686,304	35,568,405	44,192,538
Feb	10,746,666	11,299,110	13,046,789	13,033,296	13,502,935	28,456,273	32,194,523	33,430,286	33,127,666	39,926,151
Mar	10,885,654	10,967,633	13,696,882	12,921,318	14,619,936	27,783,847	31,210,161	40,481,780	36,833,062	43,658,377
Apr	11,152,302	10,344,610	14,184,004	11,758,716	14,769,748	27,008,115	31,258,716	39,157,466	39,231,423	44,987,437
May	11,232,095	10,694,093	14,590,586	12,200,638	13,533,662	29,827,086	37,627,216	32,826,593	42,396,200	48,854,309
Jun	9,856,346	12,398,666	13,854,073	13,892,336	14,635,489	29,037,565	27,892,191	31,404,784	39,655,715	53,215,349
Jul	10,925,334	10,476,634	15,681,413	15,156,718	15,275,671	32,474,834	27,218,031	38,401,919	47,116,575	46,876,270
Aug	10,466,626	10,648,126	15,136,230	12,987,335	14,935,867	29,644,823	28,574,905	39,465,206	47,657,967	47,090,202
Sep	10,120,723	12,000,686	13,254,560	13,384,375	14,031,902	29,945,119	26,159,288	35,458,224	41,143,468	49,546,025
Oct	10,269,216	12,003,534	14,717,018	15,147,598	16,405,129	28,666,473	29,849,881	32,586,333	44,409,202	51,140,607
Nov	10,258,707	11,375,685	15,201,369	16,365,921	17,814,406	28,800,423	33,922,394	30,831,192	45,104,715	45,794,771
Dec	10,140,690	11,460,097	14,942,984	13,382,107	18,153,493	31,568,417	35,859,554	35,787,522	44,833,456	48,725,394
Total	124,831,767	133,580,130	169,531,022	163,287,030	181,383,774	351,001,321	370,025,086	427,517,609	497,077,854	564,007,430
Mozzarella Cheese						Other Italian Cheese^{1/}				
	<i>Pounds</i>					<i>Pounds</i>				
Jan	46,043,526	49,900,164	51,148,296	59,668,062	64,743,124	3,544,867	3,560,862	3,757,107	3,876,454	4,047,712
Feb	43,394,580	46,287,006	47,766,468	55,286,836	57,609,194	3,262,981	3,162,066	3,381,294	2,860,820	3,159,173
Mar	48,562,916	52,254,181	52,864,312	58,664,838	63,598,491	4,141,525	3,572,255	3,923,768	3,870,745	4,004,656
Apr	46,638,577	49,416,036	51,230,296	60,284,773	62,035,905	4,013,037	4,415,169	3,539,330	3,879,642	4,240,648
May	48,736,589	51,345,776	55,548,072	58,724,452	62,048,195	3,990,178	3,741,010	3,795,043	3,250,031	2,955,989
Jun	47,155,044	50,782,702	53,647,712	54,545,587	55,698,229	4,004,060	3,169,984	3,806,415	3,663,035	3,663,615
Jul	47,364,217	51,245,789	54,856,246	55,157,158	62,695,476	4,072,661	2,878,706	3,817,444	3,485,991	3,910,823
Aug	48,589,976	49,811,932	53,669,909	50,452,347	60,913,765	3,796,350	3,188,135	3,809,630	3,849,058	4,135,880
Sep	47,971,087	45,613,903	53,940,397	52,949,925	56,836,778	4,140,402	3,265,218	4,193,831	4,672,059	3,896,544
Oct	50,203,069	54,727,146	60,091,139	56,598,568	57,306,010	4,098,465	4,460,834	3,938,682	4,111,195	3,918,060
Nov	50,221,940	55,091,196	59,138,602	52,162,460	60,216,843	5,211,834	4,282,671	3,872,726	4,191,883	4,457,149
Dec	51,328,364	55,578,862	61,931,025	63,920,689	63,088,363	4,244,618	4,514,920	3,442,732	3,589,843	3,646,806
Total	576,209,885	612,054,693	655,832,474	678,415,695	726,790,373	48,520,978	44,211,830	45,278,002	45,300,756	46,037,055
Hispanic Cheese						Other Cheese^{2/}				
	<i>Pounds</i>					<i>Pounds</i>				
Jan	3,421,092	3,709,771	4,098,534	4,714,498	5,673,376	2,115,570	2,510,715	3,069,573	3,383,042	3,730,285
Feb	4,052,615	3,905,703	4,324,059	5,102,232	5,337,832	2,171,773	2,820,654	3,447,510	2,903,188	4,605,371
Mar	3,927,283	4,706,417	5,470,845	5,866,947	5,986,459	2,048,616	2,719,853	4,466,168	4,500,982	5,274,416
Apr	3,865,593	4,635,392	4,829,826	5,300,837	5,688,053	2,034,819	2,545,060	3,430,752	3,735,447	6,115,903
May	3,884,062	3,933,360	4,852,365	5,530,841	5,844,176	2,025,334	3,041,744	3,980,310	4,030,076	5,381,531
Jun	3,441,768	3,864,037	5,070,474	5,458,696	5,729,566	2,595,340	3,750,296	4,620,153	4,003,898	3,402,446
Jul	3,873,449	4,724,960	4,798,571	6,046,856	6,151,207	2,000,423	3,306,854	4,019,698	3,537,101	3,631,949
Aug	4,139,860	3,844,850	5,014,109	5,804,954	6,483,978	1,990,938	4,653,612	4,406,157	4,575,182	4,413,322
Sep	3,996,370	4,177,862	5,445,729	5,500,473	5,853,309	2,095,787	5,705,713	4,962,176	5,351,640	4,730,191
Oct	4,043,179	4,337,309	5,111,865	5,473,773	6,435,499	2,692,276	4,511,800	3,938,938	5,294,757	4,858,708
Nov	3,406,423	4,357,349	4,908,510	5,181,878	5,963,576	2,991,638	4,911,849	3,821,657	4,259,897	4,600,116
Dec	3,863,494	4,115,647	4,461,775	5,270,482	5,488,929	2,142,652	4,133,614	3,571,084	3,772,737	3,735,166
Total	45,915,188	50,312,657	58,386,662	65,252,467	70,635,960	26,905,166	44,611,764	47,734,176	49,347,947	54,479,404
Total Cheese										
	<i>Pounds</i>									
Jan	91,690,809	97,850,994	110,984,928	120,267,133	136,092,571					
Feb	92,084,888	99,669,062	105,396,406	112,314,038	124,140,656					
Mar	97,349,841	105,430,500	120,903,755	122,657,892	137,142,335					
Apr	94,712,443	102,614,983	116,371,674	124,190,838	137,837,694					
May	99,695,344	110,383,199	115,592,969	126,132,238	138,617,862					
Jun	96,090,123	101,857,876	112,403,611	121,219,267	136,344,694					
Jul	100,710,918	99,850,974	121,575,291	130,500,399	138,541,396					
Aug	98,628,573	100,721,560	121,501,241	125,326,843	137,973,014					
Sep	98,269,488	96,922,670	117,254,917	123,001,940	134,894,749					
Oct	99,972,678	109,890,504	120,383,975	131,035,093	140,064,013					
Nov	100,890,965	113,941,144	117,774,056	125,237,917	138,846,861					
Dec	103,288,235	115,662,694	124,137,122	134,769,314	142,838,151					
Total	1,173,384,305	1,254,796,160	1,404,279,945	1,496,652,912	1,643,333,996					

^{1/} Other Italian includes ricotta, provolone, mascarpone and caccavallo cheeses.

^{2/} Other cheese includes all cheeses not included in the Cheddar, Mozzarella, Monterey, Other Italian, and Hispanic categories.



Pricing/Costs

California saw increases in both total milk production and commercial milk production in the year 2001. In addition, in response to declining milk production nationwide, producer prices were near record levels throughout the year, topped only by 1998 prices. The cost of producing milk also remained favorable throughout the year, with the price increases more than offsetting any increases in production costs. Part of the cost increases were associated with high heifer replacement costs which will still be an ongoing concern for 2002. Another concern in 2001 was the decline in Class 1 and 2 utilization.

Wholesale prices for butter, nonfat dry milk (NFDM), and Cheddar cheese form the basis for California's regulated milk prices. For much of 2001, NFDM markets were soft with prices near their support purchase price levels. With the recovery of other dairy products from 2000 to 2001, butter and cheese were the dominant dairy products and dictated regulating prices. The unregulated price for most manufacturing grade milk continued to be tied to the price of cheese.

Traditionally, milk prices are highest in the fall, peaking with the holiday use of butter. Cheese sales typically remain strong through Super Bowl Sunday in late January. Milk prices generally decline as demand tapers off in mid-winter and the seasonal milk production flush comes on in the spring. The year 2001 was an exception to this pattern as butter and cheese prices rose seasonally, but peaked early in September. The price declines began well before the holiday period.

Selected Monthly Commodity Prices Used in the Calculation of California Class 4a & 4b Prices in 2001

Month	Chicago Mercantile Exchange		California Manufacturing Plants
	Grade AA Butter	Block Cheddar Cheese	NFDM
	<i>Dollars Per Pound</i>		
January	1.2109	1.0990	1.0108
February	1.3513	1.1808	1.0084
March	1.5344	1.3095	1.0061
April	1.7725	1.3850	1.0074
May	1.8750	1.5889	1.0094
June	1.9677	1.6545	1.0070
July	1.9000	1.6693	0.9526
August	2.0448	1.6977	0.9323
September	2.1532	1.7261	0.9412
October	1.4919	1.4066	0.9354
November	1.3273	1.2374	0.9238
December	1.2873	1.2750	0.9106



AVERAGE PRICES PAID PRODUCERS

**Table 18. Average Prices Paid Producers In California
For All Bulk Milk (Grade A and Grade B), By Month, 1997-2001 ^{1/2/}**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
<i>Dollars Per Hundredweight</i>													
1997	13.27	12.67	12.66	12.27	11.62	11.50	11.64	12.14	12.29	13.45	13.75	14.04	12.61
1998	13.58	14.03	13.39	13.13	12.94	13.94	14.40	15.62	16.68	18.08	17.24	17.19	15.02
1999	15.89	14.14	13.99	12.30	12.03	12.75	13.28	15.10	14.32	13.60	12.94	11.35	13.47
2000	10.88	10.70	10.81	11.02	11.17	11.61	11.84	11.90	12.32	11.39	12.02	12.31	11.50
2001	12.03	12.27	13.04	13.76	14.65	15.35	15.25	15.67	16.07	13.84	12.90	12.30	13.93

^{1/} Prices are F.O.B. plant, at actual test.

^{2/} Includes in state pool shipments and California milk shipped into Federal Milk Marketing Orders. Excludes bonuses and premiums.

**Table 19. Average Prices Paid Producers In California
For Market Milk (Grade A), By Month, 1997-2001 ^{1/2/}**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
<i>Dollars Per Hundredweight</i>													
1997	13.30	12.67	12.67	12.27	11.62	11.50	11.64	12.13	12.28	13.45	13.75	14.04	12.61
1998	13.56	14.03	13.39	13.15	12.96	13.94	14.39	15.62	16.68	18.08	17.22	17.17	15.02
1999	15.89	14.15	14.00	12.30	12.03	12.74	13.26	15.07	14.30	13.61	12.96	11.35	13.47
2000	10.88	10.71	10.82	11.03	11.18	11.62	11.85	11.91	12.31	11.41	12.03	12.32	11.50
2001	12.03	12.28	13.04	13.76	14.64	15.34	15.25	15.66	16.06	13.85	12.90	12.30	13.93

^{1/} Prices are F.O.B. plant, at actual test.

^{2/} Includes in state pool shipments and California milk shipped into Federal Milk Marketing Orders. Excludes bonuses and premiums and exempt production.

**Table 20. Average Prices Paid Producers In California
For Manufacturing Milk (Grade B), By Month, 1997-2001 ^{1/}**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
<i>Dollars Per Hundredweight</i>													
1997	11.48	12.88	12.00	12.12	11.55	11.58	11.34	12.67	13.28	13.59	14.13	14.41	12.59
1998	14.71	13.85	13.20	12.39	12.13	13.91	15.07	15.77	16.90	18.32	18.65	19.01	15.32
1999	15.72	13.30	12.97	12.53	12.00	13.58	14.63	17.11	15.43	13.36	11.45	11.22	13.61
2000	10.80	10.28	10.21	10.43	10.84	10.81	11.49	11.53	12.47	10.25	10.64	11.16	10.91
2001	11.23	11.42	13.12	13.67	15.31	15.93	15.87	16.51	17.08	13.23	12.26	12.55	14.01

^{1/} Prices are F.O.B. plant, at actual test.

MINIMUM CLASS 1 PRICES

Table 21. Minimum Prices in California for Market Milk Used to Produce Class 1 Products, by Marketing Area, 1997-2001

Year & Month	Northern California				Southern California				Wtd. Avg. Basis ^{2/}
	Fat	SNF	Fluid	Equivalent	Fat	SNF	Fluid	Equivalent	
	Dollars Per Pound		Per Cwt. ^{1/}		Dollars Per Pound		Per Cwt. ^{1/}		
1997									
Jan	1.3974	1.1173	0.0362	17.79	1.4024	1.1173	0.0391	18.06	17.85
Feb	1.0004	0.9575	0.0283	14.32	1.0054	0.9575	0.0312	14.59	14.38
Mar	1.0004	0.9575	0.0283	14.32	1.0054	0.9575	0.0312	14.59	14.38
Apr	1.0004	0.9575	0.0283	14.32	1.0054	0.9575	0.0312	14.59	14.38
May	1.0004	0.9575	0.0283	14.32	1.0054	0.9575	0.0312	14.59	14.38
Jun	1.0247	0.8708	0.0236	13.23	1.0247	0.8708	0.0267	13.51	13.29
Jul	1.0247	0.8708	0.0236	13.23	1.0247	0.8708	0.0267	13.51	13.29
Aug	0.9407	0.8370	0.0219	12.50	0.9407	0.8370	0.0250	12.77	12.56
Sep	0.9407	0.8370	0.0219	12.50	0.9407	0.8370	0.0250	12.77	12.56
Oct	1.1614	0.9258	0.0263	14.43	1.1614	0.9258	0.0294	14.70	14.49
Nov	1.1614	0.9258	0.0263	14.43	1.1614	0.9258	0.0294	14.70	14.49
Dec	1.2054	0.9435	0.0272	14.82	1.2054	0.9435	0.0303	15.09	14.88
1998									
Jan	1.2054	0.9435	0.0272	14.82	1.2054	0.9435	0.0303	15.09	14.88
Feb	1.2463	0.9599	0.0280	15.17	1.2463	0.9599	0.0311	15.44	15.23
Mar	1.2463	0.9599	0.0280	15.17	1.2463	0.9599	0.0311	15.44	15.23
Apr	1.2435	0.9588	0.0279	15.14	1.2435	0.9588	0.0310	15.42	15.20
May	1.2435	0.9588	0.0279	15.14	1.2435	0.9588	0.0310	15.42	15.20
Jun	1.0849	0.8950	0.0248	13.76	1.0849	0.8950	0.0279	14.03	13.82
Jul	1.0849	0.8950	0.0248	13.76	1.0849	0.8950	0.0279	14.03	13.82
Aug	1.3208	0.9899	0.0295	15.83	1.3208	0.9899	0.0326	16.10	15.89
Sep	1.3208	0.9899	0.0295	15.83	1.3208	0.9899	0.0326	16.10	15.89
Oct	1.5216	1.0707	0.0335	17.58	1.5216	1.0707	0.0366	17.85	17.64
Nov	1.5216	1.0707	0.0335	17.58	1.5216	1.0707	0.0366	17.85	17.64
Dec	1.7015	1.1430	0.0370	19.15	1.7015	1.1430	0.0401	19.42	19.21
1999									
Jan	1.7015	1.1430	0.0370	19.15	1.7015	1.1430	0.0401	19.42	19.21
Feb	1.7723	1.1715	0.0385	19.78	1.7723	1.1715	0.0416	20.05	19.84
Mar	1.7723	1.1715	0.0385	19.78	1.7723	1.1715	0.0416	20.05	19.84
Apr	1.1089	0.9046	0.0252	13.96	1.1089	0.9046	0.0283	14.24	14.02
May	1.1089	0.9046	0.0252	13.96	1.1089	0.9046	0.0283	14.24	14.02
Jun	1.1261	0.9116	0.0256	14.12	1.1261	0.9116	0.0287	14.39	14.18
Jul	1.1261	0.9116	0.0256	14.12	1.1261	0.9116	0.0287	14.39	14.18
Aug	1.1817	0.9339	0.0267	14.61	1.1817	0.9339	0.0298	14.88	14.66
Sep	1.1817	0.9339	0.0267	14.61	1.1817	0.9339	0.0298	14.88	14.66
Oct	1.7391	1.1582	0.0378	19.48	1.7391	1.1582	0.0409	19.75	19.54
Nov	1.7391	1.1582	0.0378	19.48	1.7391	1.1582	0.0409	19.75	19.54
Dec	1.1729	0.8617	0.0239	13.70	1.1729	0.8617	0.0270	13.97	13.75
2000									
Jan	1.1136	0.7248	0.0196	11.92	1.1136	0.7248	0.0227	12.19	11.98
Feb	0.9186	0.7643	0.0208	11.69	0.9186	0.7643	0.0239	11.96	11.75
Mar	0.9109	0.7595	0.0207	11.61	0.9109	0.7595	0.0238	11.88	11.67
Apr	1.0530	0.8351	0.0230	12.97	1.0530	0.8351	0.0261	13.25	13.03
May	1.1995	0.8362	0.0231	13.50	1.1995	0.8362	0.0262	13.77	13.55
Jun	1.2647	0.8355	0.0230	13.72	1.2647	0.8355	0.0261	13.99	13.73
Jul	1.4885	0.8356	0.0230	14.50	1.4885	0.8356	0.0261	14.77	14.56
Aug	1.3285	0.8346	0.0230	13.93	1.3285	0.8346	0.0261	14.20	13.99
Sep	1.2965	0.8354	0.0230	13.83	1.2965	0.8354	0.0261	14.10	13.89
Oct	1.2966	0.8363	0.0231	13.84	1.2966	0.8363	0.0262	14.11	13.90
Nov	1.2685	0.8380	0.0231	13.76	1.2685	0.8380	0.0262	14.03	13.82
Dec	1.5043	0.8380	0.0231	14.59	1.5043	0.8380	0.0262	14.86	14.64
2001									
Jan	2.0100	0.8375	0.0231	16.35	2.0100	0.8375	0.0262	16.62	16.41
Feb	1.2800	0.8380	0.0231	13.80	1.2800	0.8380	0.0262	14.07	13.86
Mar	1.4610	0.8374	0.0231	14.43	1.4610	0.8374	0.0262	14.70	14.48
Apr	1.6835	0.8344	0.0230	15.17	1.6835	0.8344	0.0261	15.44	15.22
May	1.8960	0.8350	0.0230	15.92	1.8960	0.8350	0.0261	16.19	15.97
Jun	2.1050	0.8359	0.0231	16.66	2.1050	0.8359	0.0262	16.94	16.72
Jul	2.2002	0.8373	0.0231	17.01	2.2002	0.8373	0.0262	17.29	17.07
Aug	2.2416	0.8279	0.0228	17.05	2.2416	0.8279	0.0259	17.32	17.10
Sep	2.2680	0.8249	0.0227	17.11	2.2680	0.8249	0.0258	17.38	17.16
Oct	2.5285	0.7999	0.0219	17.73	2.5285	0.7999	0.0250	18.01	17.79
Nov	1.8415	0.8710	0.0242	16.14	1.8415	0.8710	0.0273	16.42	16.20
Dec	1.4310	0.7748	0.0211	13.61	1.4310	0.7748	0.0242	13.88	13.66

^{1/} Calculated based on 3.5 percent fat, 8.7 percent solids not fat, and 87.8 percent fluid carrier.

^{2/} Calculated for the State as a whole using market milk production in each marketing area for weighting.



MINIMUM CLASS 2 PRICES

Table 22. Minimum Prices in California for Market Milk Used to Produce Class 2 Products, by Marketing Area, 1997-2001

Year & Month	Northern California			Southern California		
	Fat	SNF	Equivalent	Fat	SNF	Equivalent
	Dollars Per Pound		Per Cwt. ^{1/}	Dollars Per Pound		Per Cwt. ^{1/}
1997						
Jan	1.2158	1.1616	14.36	1.2181	1.1874	14.59
Feb	0.8841	1.0543	12.27	0.8864	1.0801	12.50
Mar	0.8841	1.0543	12.27	0.8864	1.0801	12.50
Apr	1.2009	1.0236	13.11	1.2032	1.0494	13.34
May	1.2009	1.0236	13.11	1.2032	1.0494	13.34
Jun	1.0612	1.0131	12.53	1.0635	1.0389	12.76
Jul	1.0612	1.0131	12.53	1.0635	1.0389	12.76
Aug	1.2061	0.9687	12.65	1.2084	0.9945	12.88
Sep	1.2061	0.9687	12.65	1.2084	0.9945	12.88
Oct	1.1705	0.9651	12.49	1.1728	0.9909	12.73
Nov	1.1705	0.9651	12.49	1.1728	0.9909	12.73
Dec	1.6795	0.9592	14.22	1.6818	0.9850	14.46
1998						
Jan	1.6795	0.9592	14.22	1.6818	0.9850	14.46
Feb	1.3933	0.9552	13.19	1.3956	0.9810	13.42
Mar	1.3933	0.9552	13.19	1.3956	0.9810	13.42
Apr	1.5095	0.9473	13.52	1.5118	0.9731	13.76
May	1.5095	0.9473	13.52	1.5118	0.9731	13.76
Jun	1.6090	0.9506	13.90	1.6113	0.9764	14.13
Jul	1.6090	0.9506	13.90	1.6113	0.9764	14.13
Aug	2.1613	0.9488	15.82	2.1636	0.9746	16.05
Sep	2.1613	0.9488	15.82	2.1636	0.9746	16.05
Oct	2.7811	0.9579	18.07	2.7834	0.9837	18.30
Nov	2.7811	0.9579	18.07	2.7834	0.9837	18.30
Dec	2.3582	0.9948	16.91	2.3605	1.0206	17.14
1999						
Jan	2.3582	0.9948	16.91	2.3605	1.0206	17.14
Feb	1.5935	0.9907	14.20	1.5958	1.0165	14.43
Mar	1.5935	0.9907	14.20	1.5958	1.0165	14.43
Apr	1.4297	0.9423	13.20	1.4320	0.9681	13.43
May	1.4297	0.9423	13.20	1.4320	0.9681	13.43
Jun	1.1616	0.9272	12.13	1.1639	0.9230	12.36
Jul	1.1616	0.9272	12.13	1.1639	0.9230	12.36
Aug	1.5711	0.9240	13.54	1.5734	0.9498	13.77
Sep	1.5711	0.9240	13.54	1.5734	0.9498	13.77
Oct	1.5056	0.9251	13.32	1.5079	0.9509	13.55
Nov	1.5056	0.9251	13.32	1.5079	0.9509	13.55
Dec	1.1803	0.9287	12.21	1.1826	0.9545	12.44
2000						
Jan	1.4785	0.9263	13.23	1.4808	0.9521	13.47
Feb	1.4844	0.9261	13.25	1.4867	0.9519	13.48
Mar	1.4844	0.9261	13.25	1.4867	0.9519	13.48
Apr	1.5980	0.9229	13.62	1.6003	0.9487	13.85
May	1.5980	0.9229	13.62	1.6003	0.9487	13.85
Jun	2.0551	0.9240	15.23	2.0574	0.9498	15.46
Jul	2.0551	0.9240	15.23	2.0574	0.9498	15.46
Aug	2.1872	0.8957	15.45	2.1895	0.9215	15.68
Sep	2.1872	0.8957	15.45	2.1895	0.9215	15.68
Oct	1.2851	0.9241	12.54	1.2874	0.9499	12.77
Nov	1.2851	0.9241	12.54	1.2874	0.9499	12.77
Dec	1.4785	0.9263	13.23	1.4808	0.9521	13.47
2001						
Jan	1.1803	0.9287	12.21	1.1826	0.9545	12.44
Feb	0.9518	0.9255	11.38	0.9541	0.9513	11.62
Mar	0.9518	0.9255	11.38	0.9541	0.9513	11.62
Apr	1.0140	0.9237	11.58	0.0163	0.9495	11.82
May	1.0140	0.9237	11.58	0.0163	0.9495	11.82
Jun	1.2350	0.9235	12.36	1.2373	0.9493	12.59
Jul	1.2350	0.9235	12.36	1.2373	0.9493	12.59
Aug	2.1872	0.8957	15.45	2.1895	0.9215	15.68
Sep	2.1872	0.8957	15.45	2.1895	0.9215	15.68
Oct	2.3854	0.8531	15.77	2.3877	0.8789	16.00
Nov	2.3854	0.8531	15.77	2.3877	0.8789	16.00
Dec	1.5582	0.8460	12.81	1.5605	0.8718	13.05

^{1/} Calculated on 3.5 percent fat and 8.7 percent solids not fat.



MINIMUM CLASS 3 PRICES

Table 23. Minimum Prices in California for Market Milk Used to Produce Class 3 Products, by Marketing Area, 1997-2001

Year & Month	Northern California			Southern California		
	Fat	SNF	Equivalent	Fat	SNF	Equivalent
	<i>Dollars Per Pound</i>		<i>Per Cwt.^{1/}</i>	<i>Dollars Per Pound</i>		<i>Per Cwt.^{1/}</i>
1997						
Jan	1.2158	1.1559	14.31	1.2181	1.1559	14.32
Feb	0.8864	1.0486	12.22	0.8841	1.0486	12.23
Mar	0.8864	1.0486	12.22	0.8841	1.0486	12.23
Apr	1.2009	1.0179	13.06	1.2032	1.0179	13.07
May	1.2009	1.0179	13.06	1.2032	1.0179	13.07
Jun	1.0612	1.0074	12.48	1.0635	1.0074	12.49
Jul	1.0612	1.0074	12.48	1.0635	1.0074	12.49
Aug	1.2084	0.9630	12.61	1.2061	0.9630	12.60
Sep	1.2084	0.9630	12.61	1.2061	0.9630	12.60
Oct	1.1705	0.9594	12.44	1.1728	0.9594	12.45
Nov	1.1705	0.9594	12.44	1.1728	0.9594	12.45
Dec	1.6795	0.9535	14.17	1.6818	0.9535	14.18
1998						
Jan	1.6795	0.9535	14.17	1.6818	0.9535	14.18
Feb	1.3933	0.9495	13.14	1.3956	0.9495	13.15
Mar	1.3933	0.9495	13.14	1.3956	0.9495	13.15
Apr	1.5095	0.9416	13.48	1.5118	0.9416	13.48
May	1.5095	0.9416	13.48	1.5118	0.9416	13.48
Jun	1.6090	0.9449	13.85	1.6113	0.9449	13.86
Jul	1.6090	0.9449	13.85	1.6113	0.9449	13.86
Aug	2.1613	0.9431	15.77	2.1636	0.9431	15.78
Sep	2.1613	0.9431	15.77	2.1636	0.9431	15.78
Oct	2.7811	0.9522	18.02	2.7834	0.9522	18.03
Nov	2.7811	0.9522	18.02	2.7834	0.9522	18.03
Dec	2.3582	0.9891	16.86	2.3605	0.9891	16.87
1999						
Jan	2.3582	0.9891	16.87	2.3605	0.9891	16.86
Feb	1.5935	0.9850	14.15	1.5958	0.9850	14.15
Mar	1.5935	0.9850	14.15	1.5958	0.9850	14.15
Apr	1.4297	0.9366	13.15	1.4320	0.9366	13.16
May	1.4297	0.9366	13.15	1.4320	0.9366	13.16
Jun	1.1616	0.9215	12.08	1.1639	0.9215	12.09
Jul	1.1616	0.9215	12.08	1.1639	0.9215	12.09
Aug	1.5711	0.9183	13.49	1.5734	0.9183	13.50
Sep	1.5711	0.9183	13.49	1.5734	0.9183	13.50
Oct	1.5056	0.9194	13.27	1.5079	0.9194	13.28
Nov	1.5056	0.9194	13.27	1.5079	0.9194	13.28
Dec	1.1803	0.9230	12.16	1.1826	0.9230	12.17
2000						
Jan	1.1803	0.9320	12.16	1.1826	0.9230	12.17
Feb	0.9518	0.9198	11.33	0.9541	0.9198	11.34
Mar	0.9518	0.9198	11.33	0.9541	0.9198	11.34
Apr	1.0140	0.9180	11.54	1.0163	0.9180	11.54
May	1.0140	0.9180	11.54	1.0163	0.9180	11.54
Jun	1.2350	0.9178	12.31	1.2373	0.9178	12.32
Jul	1.2350	0.9178	12.31	1.2373	0.9178	12.32
Aug	1.3425	0.9227	12.73	1.3448	0.9485	12.96
Sep	1.3425	0.9227	12.73	1.3448	0.9485	12.96
Oct	1.2851	0.9184	12.49	1.2874	0.9184	12.50
Nov	1.2851	0.9184	12.49	1.2874	0.9184	12.50
Dec	1.4785	0.9206	13.18	1.4808	0.9206	13.19
2001						
Jan	1.4785	0.9206	13.18	1.4808	0.9206	13.18
Feb	1.4844	0.9204	13.20	1.4867	0.9204	13.21
Mar	1.4844	0.9204	13.20	1.4867	0.9204	13.21
Apr	1.5980	0.9172	13.57	1.6003	0.9172	13.58
May	1.5980	0.9172	13.57	1.6003	0.9172	13.58
Jun	2.0551	0.9183	15.18	2.0574	0.9183	15.19
Jul	2.0551	0.9183	15.18	2.0574	0.9183	15.19
Aug	2.1872	0.8900	15.40	2.1895	0.8900	15.41
Sep	2.1872	0.8900	15.40	2.1895	0.8900	15.41
Oct	2.3854	0.8474	15.72	2.3877	0.8474	15.73
Nov	2.3854	0.8474	15.72	2.3877	0.8474	15.73
Dec	1.5582	0.8403	12.76	1.5605	0.8403	12.77

^{1/} Calculated on 3.5 percent fat and 8.7 percent solids not fat.



MINIMUM CLASS 4a and 4b PRICES

Table 24. Minimum Prices in California for Market Milk
Used to Produce Class 4a and 4b Products 1997-2001

Month	Fat	SNF	Equivalent	Fat	SNF	Equivalent
	Class 4a			Class 4b		
	Dollars Per Pound		Per Cwt. ^{1/}	Dollars Per Pound		Per Cwt. ^{1/}
1997						
Jan	0.9120	0.9641	11.58	0.9120	0.8707	10.77
Feb	1.1092	0.9553	12.19	1.1092	0.8527	11.30
Mar	1.2186	0.9633	12.65	1.2186	0.8262	11.45
Apr	1.0728	0.9692	12.19	1.0728	0.7924	10.65
May	0.9756	0.9283	11.49	0.9756	0.7326	9.79
Jun	1.1849	0.9059	12.03	1.1849	0.6615	9.90
Jul	1.1532	0.9029	11.89	1.1532	0.7279	10.37
Aug	1.1496	0.9029	11.88	1.1496	0.8981	11.84
Sep	1.1173	0.8987	11.73	1.1173	0.9425	12.11
Oct	1.5504	0.8961	13.22	1.5504	0.7765	12.18
Nov	1.7346	0.8936	13.85	1.7346	0.7199	12.33
Dec	1.4706	0.8943	12.93	1.4706	0.8508	12.55
1998						
Jan	1.2420	0.8874	12.07	1.2420	0.9366	12.50
Feb	1.5006	0.8849	12.95	1.5006	0.8354	12.52
Mar	1.4443	0.8811	12.72	1.4443	0.7964	11.98
Apr	1.4784	0.8863	12.89	1.4784	0.6834	11.12
May	1.6656	0.8863	13.54	1.6656	0.5299	10.44
Jun	2.0166	0.8842	14.75	2.0166	0.6992	13.14
Jul	2.2320	0.8848	15.51	2.2320	0.7523	14.36
Aug	2.4059	0.8855	16.12	2.4059	0.7415	14.87
Sep	3.0822	0.9016	18.63	3.0822	0.5307	15.40
Oct	2.7172	0.9295	17.60	2.7172	0.7890	16.37
Nov	1.9110	0.9257	14.74	1.9110	1.1629	16.81
Dec	1.5539	0.9290	13.52	1.5539	1.3452	17.14
1999						
Jan	1.5449	0.9179	13.39	1.5449	1.0273	14.34
Feb	1.4076	0.8847	12.62	1.4076	0.7314	11.29
Mar	1.3636	0.8655	12.30	1.3636	0.7750	11.52
Apr	1.0674	0.8624	11.24	1.0674	0.8906	11.48
May	1.1676	0.8575	11.55	1.1676	0.7573	10.68
Jun	1.6276	0.8565	13.15	1.6276	0.7140	11.91
Jul	1.4264	0.8570	12.45	1.4264	1.0304	13.96
Aug	1.5053	0.8587	12.74	1.5053	1.3375	16.90
Sep	1.4318	0.8629	12.52	1.4318	1.1554	15.06
Oct	1.1729	0.8643	11.62	1.1729	0.8688	11.66
Nov	1.1136	0.8646	11.42	1.1136	0.6871	9.88
Dec	0.9186	0.8625	10.72	0.9186	0.7416	9.67
2000						
Jan	0.9109	0.8599	10.67	0.9109	0.7352	9.58
Feb	0.9322	0.8596	10.74	0.9322	0.6915	9.28
Mar	1.0218	0.8591	11.05	1.0218	0.6625	9.34
Apr	1.1194	0.8592	11.39	1.1194	0.6156	9.27
May	1.2766	0.8591	11.94	1.2766	0.5408	9.17
Jun	1.3589	0.8585	12.23	1.3589	0.6002	9.98
Jul	1.2521	0.8583	11.85	1.2521	0.7189	10.64
Aug	1.2499	0.8600	11.86	1.2499	0.7127	10.57
Sep	1.2463	0.8596	11.84	1.2463	0.8002	11.32
Oct	1.2084	0.8620	11.73	1.2084	0.5496	9.01
Nov	1.6746	0.8621	13.36	1.6746	0.3280	8.71
Dec	1.6121	0.8615	13.14	1.6121	0.4310	9.39
2001						
Jan	1.2827	0.8621	11.99	1.2827	0.5435	9.22
Feb	1.4512	0.8597	12.56	1.4512	0.5709	10.05
Mar	1.6709	0.8574	13.31	1.6709	0.6318	11.34
Apr	1.9566	0.8587	14.32	1.9566	0.6064	12.12
May	2.0796	0.8607	14.77	2.0796	0.7906	14.16
Jun	2.1908	0.8583	15.14	2.1908	0.8219	14.82
Jul	2.1096	0.8045	14.38	2.1096	0.8705	14.96
Aug	2.2834	0.7844	14.82	2.2834	0.8350	15.26
Sep	2.4134	0.7932	15.35	2.4134	0.8166	15.55
Oct	1.6199	0.7874	12.52	1.6199	0.7623	12.30
Nov	1.4224	0.7760	11.73	1.4224	0.6466	10.60
Dec	1.3744	0.7629	11.45	1.3744	0.7082	10.97

^{1/} Calculated based on 3.5 percent fat and 8.7 percent solids not fat.



QUOTA, BASE, and OVERBASE PRICES

Table 25. Pool Prices for Quota, Base and Overbase 1997-2001

Year & Month	Quota			Base and Overbase ^{1/}		
	Fat	SNF	Equivalent	Fat	SNF	Equivalent
	Dollars Per Pound		Per Cwt. ^{2/}	Dollars Per Pound		Per Cwt. ^{2/}
1997						
Jan	1.017	1.193	13.94	1.017	0.998	12.24
Feb	1.069	1.120	13.49	1.069	0.925	11.79
Mar	1.128	1.108	13.59	1.128	0.913	11.89
Apr	1.075	1.096	13.30	1.075	0.901	11.60
May	1.008	1.059	12.74	1.008	0.864	11.04
Jun	1.147	0.991	12.64	1.147	0.796	10.94
Jul	1.114	1.020	12.78	1.114	0.825	11.08
Aug	1.153	1.095	13.56	1.153	0.900	11.86
Sep	1.101	1.082	13.27	1.101	0.887	11.57
Oct	1.440	1.055	14.22	1.440	0.860	12.52
Nov	1.553	1.030	14.40	1.553	0.835	12.70
Dec	1.447	1.089	14.54	1.447	0.894	12.84
1998						
Jan	1.264	1.114	14.12	1.264	0.919	12.42
Feb	1.465	1.090	14.61	1.465	0.895	12.91
Mar	1.405	1.065	14.19	1.405	0.870	12.49
Apr	1.444	1.027	13.99	1.444	0.832	12.29
May	1.582	0.962	13.91	1.582	0.767	12.21
Jun	1.794	1.008	15.05	1.794	0.813	13.35
Jul	1.889	1.025	15.53	1.889	0.830	13.83
Aug	2.190	1.054	16.84	2.190	0.859	15.14
Sep	2.622	0.983	17.73	2.622	0.788	16.03
Oct	2.543	1.118	18.64	2.543	0.923	16.94
Nov	1.939	1.272	17.85	1.939	1.077	16.15
Dec	1.653	1.362	17.64	1.653	1.167	15.94
1999						
Jan	1.640	1.232	16.46	1.640	1.037	14.76
Feb	1.474	1.119	14.90	1.474	0.924	13.20
Mar	1.441	1.128	14.86	1.441	0.933	13.16
Apr	1.109	1.078	13.26	1.109	0.883	11.56
May	1.201	1.024	13.11	1.201	0.829	11.41
Jun	1.461	1.004	13.85	1.461	0.809	12.15
Jul	1.301	1.131	14.40	1.301	0.936	12.70
Aug	1.477	1.261	16.14	1.477	1.066	14.44
Sep	1.412	1.193	15.32	1.412	0.998	13.62
Oct	1.284	1.155	14.55	1.284	0.960	12.85
Nov	1.242	1.087	13.81	1.242	0.892	12.11
Dec	0.972	1.006	12.16	0.972	0.811	10.46
2000						
Jan	0.962	0.964	11.74	0.962	0.769	10.05
Feb	0.936	0.962	11.65	0.936	0.767	9.95
Mar	1.000	0.945	11.73	1.000	0.750	10.03
Apr	1.097	0.945	12.06	1.097	0.750	10.36
May	1.220	0.916	12.24	1.220	0.721	10.54
Jun	1.321	0.937	12.78	1.321	0.742	11.08
Jul	1.275	0.981	13.00	1.275	0.786	11.30
Aug	1.278	0.982	13.02	1.278	0.787	11.32
Sep	1.266	1.020	13.31	1.266	0.825	11.61
Oct	1.229	0.918	12.29	1.229	0.723	10.59
Nov	1.576	0.824	12.69	1.576	0.629	10.99
Dec	1.579	0.857	12.98	1.579	0.662	11.28
2001						
Jan	1.379	0.908	12.73	1.379	0.713	11.03
Feb	1.443	0.918	13.04	1.443	0.723	11.34
Mar	1.623	0.942	13.88	1.623	0.747	12.18
Apr	1.872	0.931	14.65	1.872	0.736	12.95
May	1.968	1.013	15.70	1.968	0.818	14.00
Jun	2.158	1.023	16.46	2.158	0.828	14.76
Jul	2.107	1.031	16.35	2.107	0.836	14.65
Aug	2.265	1.008	16.70	2.265	0.813	15.00
Sep	2.359	0.999	16.95	2.359	0.804	15.25
Oct	1.796	0.968	14.71	1.796	0.773	13.01
Nov	1.585	0.933	13.67	15.850	0.738	11.97
Dec	1.400	0.923	12.93	1.400	0.728	11.23

^{1/} Base and Overbase prices have been combined. They have been the same since January 1994.

^{2/} Calculated based on 3.5 percent fat and 8.7 percent solids not fat.

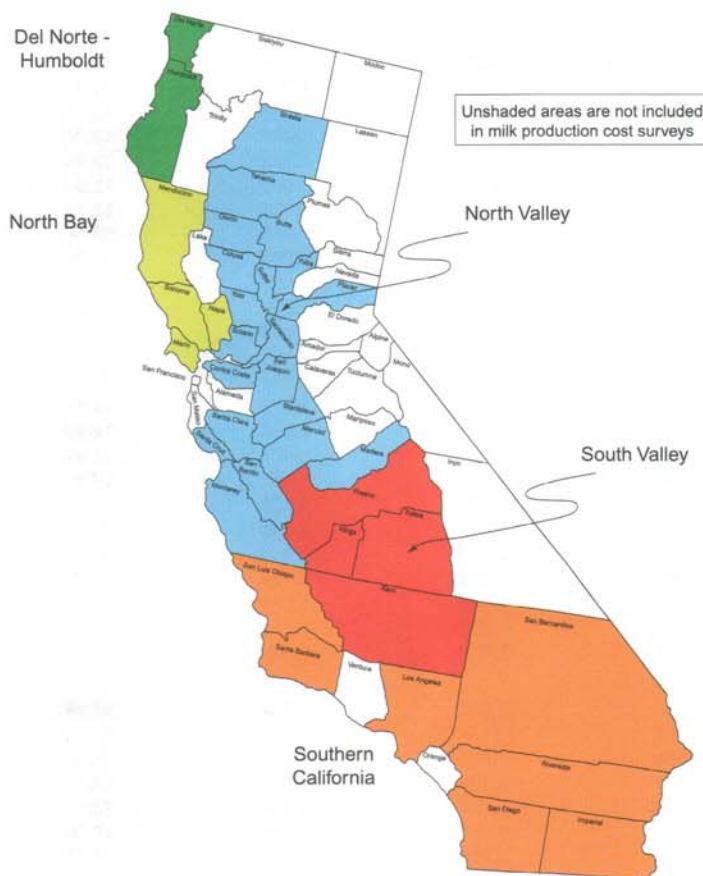


Production Cost Summary 2001

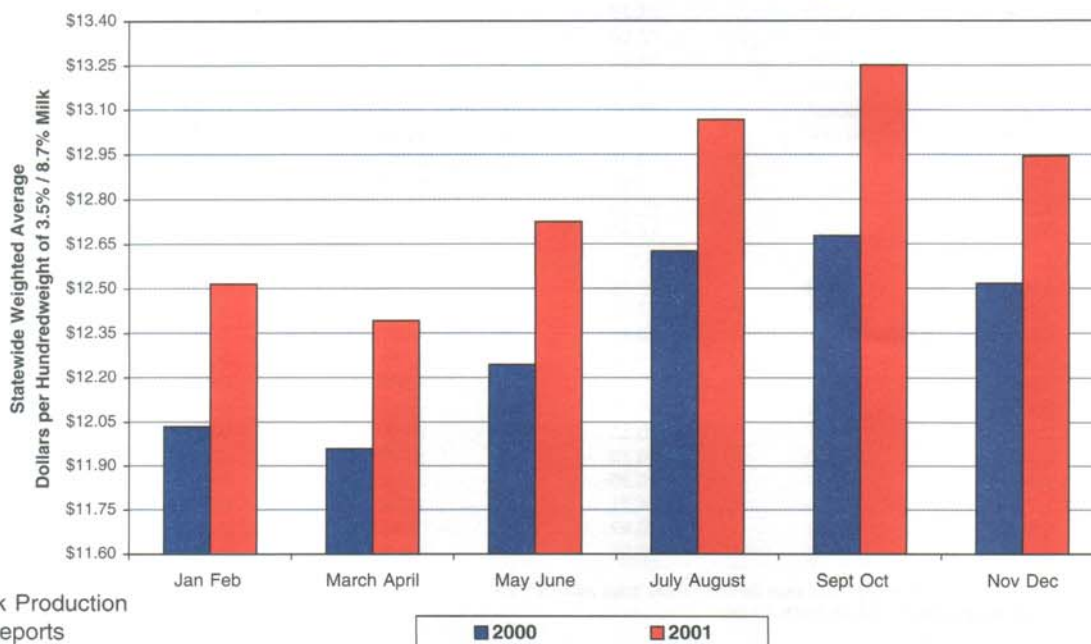
During the hearing process, the Department considers the cost of producing market milk in establishing minimum prices for the various classes of milk. Since 1955, the Department's Cost of Production Unit has been collecting and summarizing cost data from California dairy farms. The staff reviews dairy farm financial records on-site and works with dairy managers to determine allocations of dairy expenditures to produce milk. Dairy producers find that the studies and resulting cost comparisons are a valuable tool in dairy management.

The Cost of Production Unit conducts surveys for five dairy regions (see map at right) within California (Del Norte-Humboldt, North Bay, North Valley, South Valley, and Southern California). The 2001 statewide weighted average on-farm cost of milk production increased by \$0.47 per hundredweight over the 2000 cost of production. The increase in cost of production can be attributed primarily to higher hay and replacement heifer prices. Dry roughage costs increased by \$0.16 per hundredweight and replacement costs increased by \$0.12 per hundredweight. Operating costs and wet roughage costs in 2001 also displayed slight increases over the prior year.

For more information on the cost of production, see the latest Cost of Production Annual.



California Milk Production Cost Summary, 2000-2001*



*Based on Milk Production Cost Index Reports

Manufacturing Cost Summary 2001

The Department's Manufacturing Cost Unit collects and summarizes cost data from California dairy manufacturing plants. Any plant that produces Class 4a or Class 4b products may be asked to participate in the cost studies. The butter, nonfat dry milk (NFDM), and Cheddar cheese study participants typically account for over 97 percent of these respective products manufactured in California.

The Department annually reviews the cost of manufacturing milk into butter, NFDM, and Cheddar cheese with other factors. These costs are

considered when establishing the manufacturing cost allowances for the minimum pricing formulas during the hearing process. The table below shows the weighted average manufacturing costs per pound for butter (salted and unsalted), NFDM, and Cheddar cheese. Costs included in this summary are packaging, processing labor, processing non-labor, general and administrative, return on investment and, for butter and Cheddar cheese, miscellaneous ingredients. For more details on manufacturing costs, see the latest Manufacturing Cost Annual.

Weighted Average Manufacturing Costs 1989-2001

Exhibit Date	Butter	# of Butter Plants	Nonfat Powder	# of NFDM Plants	Cheddar Cheese	# of Cheddar Cheese Plants ^{1/}
May 1989	\$0.0879	11	0.1370	11	\$0.2251	9
June 1990	\$0.0888	11	0.1398	11	\$0.2324	9
May 1991	\$0.0883	10	0.1438	11	\$0.2192	9
July 1992	\$0.0969	12	0.1443	12	\$0.2010	9
August 1993	\$0.0936	12	0.1430	11	\$0.1868	10
September 1994	\$0.0895	11	0.1341	11	\$0.1889	8
April 1995	\$0.0889	9	0.1327	9	\$0.1862	8
November 1995	\$0.0928	9	0.1328	9	\$0.1981	8
December 1996	\$0.0970	9	0.1333	9	\$0.1898	8
July 1997	\$0.0958	8	0.1327	9	\$0.1840	9
February 1999	\$0.0930	8	0.1277	9	\$0.1759	10
February 2000	\$0.0957	8	0.1356	10	\$0.1693	9
January 2001 ^{2/}	\$0.0959	8	0.1463	11	\$0.1753	9
May 2001 ^{3/}	\$0.1004	8	0.1607	11	\$0.1795	9
October 2001 ^{4/}	\$0.1001	8	0.1590	11	\$0.1802	9
November 2001 ^{5/}	\$0.0949	8	0.1328	11	\$0.1747	9

1/ For the 1996 Cheddar cheese cost study and subsequent cost studies, we have included costs associated with Cheddar cheese plants producing 500 pound barrels and 640 pound blocks. However, costs for packaging labor and packaging expenses were replaced with the average of those costs associated with 40 pound block plants.

2/ Includes the cost studies completed for periods between January 1998 and December 1999 and adjusted for utility costs. The utility cost adjustments were made using each plant's invoices for energy costs for October 2000.

3/ Updated January 2001 Exhibit using each plant's invoices for energy costs for March 2001.

4/ Includes the most current completed cost studies as well as utility cost adjustments for all plants. The utility cost adjustments were made using each plant's invoices for energy costs for August 2001.

5/ Includes the most current completed cost studies used in the October Exhibit, but not adjusted for utilities per data requested at the pre-hearing workshop on November 15, 2001.



California Milk Processing Plants

California milk processing plants are experiencing trends similar to what other dairy processing plants across the U.S. are experiencing: more milk processed at fewer dairy plants. For example, for the period from 1960 to 2001, California milk production increased dramatically from 8.0 billion pounds annually to 33.1 billion pounds in 2001. However, the number of California processing plants decreased from about 600 to 125 during the same period.

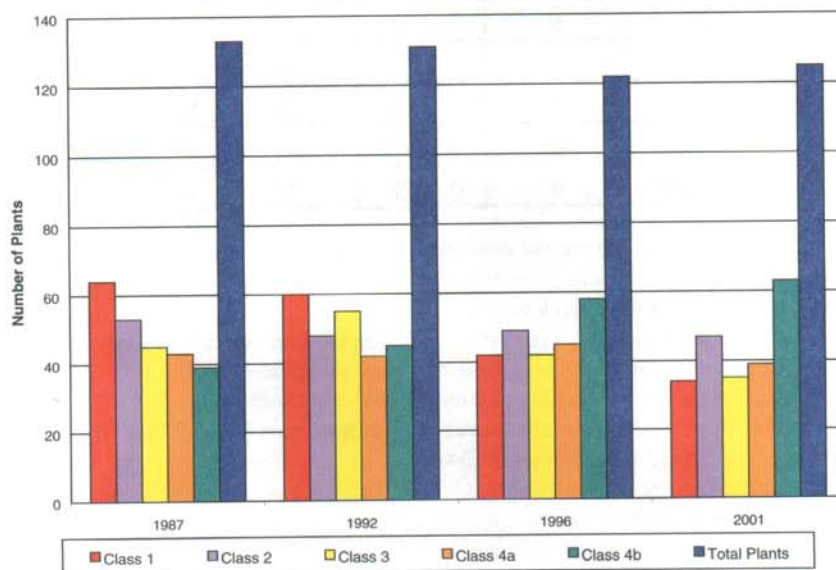
On average, California plants have been able to meet the demand of this increase in milk production, causing the average amount of milk processed per plant to grow steadily. California showed dramatic growth in 2001 in cheese production, with nearly half of California's milk supply being utilized to produce cheese. Total cheese production has more than doubled for California since 1990, and many experts predict that California will become the #1 cheese producing state in the nation in the very near future. California is also experiencing growth in the specialty cheese categories, including the high-end artisan and farmstead operations. The California Milk Advisory Board (CMAB) reports that California has 60 cheesemakers producing 160 varieties and styles of cheese (about half of those are specialty, artisan or farmstead producers).

Due to the increasing volume of milk produced in California, many California plants have expanded or are

planning expansions to increase processing capacity. Typically, plants that are already large in terms of processing capacity are the ones planning further expansions. These plant expansions will ease some of the pressure of increased milk production. The CMAB reports that there are enough new cheese plants under construction or in the planning stages to deliver another 300 million pounds of cheese by late 2004. However, it will be interesting to see whether these expansions and new cheese plant facilities will be able to meet California's growing milk and cheese production 5-8 years from now when the CMAB is predicting that California will produce 42.3 billion pounds of milk with 60 percent of that utilized for cheese production, estimated to be at 2.3 to 2.4 billion pounds, compared to the current 1.6 billion pounds of cheese.

Dairy processing plants of the 1960's often produced a wide range of products, whereas today, plants tend to specialize in the processing of only a few dairy products. The chart below depicts the historical trend for the number of milk processing plants between 1987-2001. In the last 5 years, note the overall decline in the plants processing Class 1, 2, 3, and 4a milk, whereas the number of plants processing Class 4b milk continues to grow. This growth reflects increases in both large bulk and small artisan cheese plants.

**Categorization of California Milk Processing Plants
Based Upon Classification of Processed Products**



Department Contacts for Dairy Services



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Area Code is (916) unless otherwise noted.

Other Information



CLASSIFICATION OF DAIRY PRODUCTS

PRODUCT DESCRIPTION

Acidified Half-and-Half

Fluid Milk Products:

Acidophilus

Concentrated

Filled

Flavored

High Nutrient

Imitation

With Lactobacillus Acidophilus Culture

Lactose Reduced

Modified

Whole, Reduced Fat, Lowfat, Fat Free

Half and Half

Kefir and Fruit Kefir

Milk Drink

Milk Drink Mix

Acidified Buttermilk

Acidified Half and Half Dressing

Buttermilk

Clotted Cream

Condensed (Sweetened and Unsweetened)

Milk

Lowfat Milk

Fat Free Milk

Cottage Cheese:

Acidified or directly set

Creamed

Creamed Spread

Lowfat

Fat free

Partially Creamed

Uncreamed

Cream

Acidified Cream

Coffee Cream

Light Cream

Table Cream

Whipping Cream

Cream Dressing (Sour and Acidified Sour)

Dry Whey (from Cottage Cheese)

Egg Nog (all varieties)

Evaporated (Sweetened and Unsweetened):

Cream

Milk

Lowfat Milk

Fat free Milk

Fromage Frais (Lowfat, Fat free)

Hoop Cheese

Sour Cream and Light Sour Cream

Sour Flavored Half and Half

Sour Half and Half Dressing

Ultra High Temperature (UHT) and

Fluid Flavored Milk (Whole, Lowfat, Fat Free)

Fluid Milk (Whole, Lowfat, Fat Free)

Half-and-Half

CLASSIFICATION

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These products are assigned to Class 2 if packaged in pre-sterilized containers to meet out-of-state requirements and sold outside California.

These products must be assigned to the classification of ultimate usage when utilized in bulk by handlers, but are assigned to Class 4a when sold to consumers.

These products are assigned to Class 4a if sold outside the U.S.

These products are assigned to the classification of ultimate usage when utilized in bulk by handlers, but are assigned to Class 4a when sold to

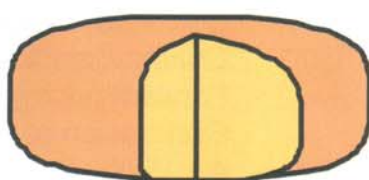
These products are assigned to Class 4a if sold outside the U.S.

These products are assigned to Class 2 if sold for use outside California and Class 4a if sold for use outside the 48 contiguous states.



PRODUCT DESCRIPTION

CLASSIFICATION

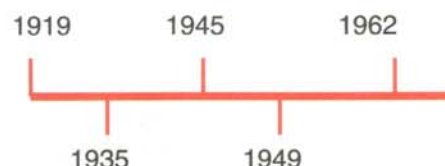
Cream	2	These products are assigned to Class 4a if sold outside the U.S.
Dairy Spread	2	
Egg Nog	2	
Flavored Cream	2	
Flavored Drink	2	
Lowfat Milk	2	
Milk	2	
Milk Drink Mix	2	
Sour Cream	2	
Sour Flavored Half and Half	2	
Ultrasteurized Half and Half (Hermetically	2	These products are assigned to Class 4a if sold outside the
Whipped Cream (Cream Topping)	2	
Whipped Nonfat Yogurt Topping	2	
Yogurt (Flavored, Lowfat, Fat Free)	2	
Yogurt Drink (Lowfat, Fat Free)	2	
Yogurt Sherbet	2	
Frozen Dairy Dessert (Mix, Lowfat, Fat Free)	3	
Frozen Yogurt (Mix, Lowfat, Nonfat)	3	
Ice Cream and Ice Milk:		
Diabetic	3	
Dietetic	3	
Imitation	3	
Mix	3	
Nonfat	3	
Light Dairy Dessert	3	
Quiescently Frozen Confections	3	
Sherbet	3	
Butter	4a	
Dry Buttermilk	4a	
Nonfat Dry Milk	4a	
Whole Dry Milk	4a	
Cheese:		
Bakers	4b	
Blue	4b	
Brick	4b	
Cheddar	4b	
Colby	4b	
Cream	4b	
Full Skim	4b	
Gorgonzola	4b	
Limburger	4b	
Monterey Jack	4b	
Mozzarella	4b	
Muenster	4b	
Neufchatel	4b	
Parmesan	4b	
Part Skim	4b	
Provolone	4b	
Ricotta	4b	
Romano	4b	
Swiss	4b	
Dry Modified Whey	4b	
Dry Whey (from other Cheese)	4b	





CALIFORNIA DAIRY INDUSTRY HISTORIC TIMELINE

(As Related to Government)



- 1919 California Department of Food and Agriculture established.
Milk and Dairy Foods Control Branch established.
- 1932 Los Angeles Milk Arbitration Board: State sponsored voluntary agreement among producers and handlers to set producer and resale prices.
- 1933 Federal license (order) established in Southern California – immediately enjoined by federal courts.
- 1935 Young Act Establishes minimum producer pricing. Dairy Marketing created. Federal licenses (order) terminated in California.
- 1937 Desmond Act Establishes minimum wholesale and retail pricing. (repealed 1978)
Minimum producer prices extended to all classes of milk.
- 1945 Dairy Products Promotion Act Establishes the Dairy Council of California to foster education and promotional programs.
- 1947 Unfair Practices Act Regulates unfair dairy business practices.
Prohibits sales below cost.
- 1949 Federal Price Support for dairy industry established.
- 1955 Amendment of Young Act: Basis for pricing changed.
- 1962 AB 2742 Establishes component pricing for fluid milk products.
(butterfat, solids not fat, and fluid carrier).
California introduces lowfat (2 10) milk.
- 1965 Classified pricing for manufactured products begins, based solely on finished product prices for butter and nonfat dry milk.
- 1967 Gonsalves Milk Pooling Act Establishes a statewide pooling of producer revenues, using a system of quota, base and overbase.
- 1969 Gonsalves Milk Pooling Act becomes effective.
California Milk Advisory Board established.
- 1970 California Manufacturing Milk Advisory Board established.
- 1973 Quality assurance dating was extended to most dairy products.
Forward pricing for Class 2 and 3 products began.
Suspension of minimum wholesale pricing began.
- 1974 AB 1570 Requires cottage cheese, buttermilk, and sour cream dressing be made from market grade milk.
- 1975 Minimum retail prices suspended in North and Central Valley.
- 1977 Minimum retail and wholesale prices suspended in all areas.
Market Milk Enforcement consolidated with Dairy Marketing.
- 1978 AB 1110 Desmond Act repealed. All original quota equalized.
Authority to establish formula pricing.
Economic formula to determine Class 1 prices implemented.
Established 2 month pricing periods.





- 1982 Transportation credits (plant to plant)
 Transportation allowances (ranch to plant)
- 1980 Fluid milk usage goes below 50 percent of total milk production on an annual basis.
- 1982 AB 903 Class 4 divided into Class 4a and Class 4b.
- 1983 Dairy and Tobacco Adjustment Act of 1983 Dairy Diversion Program:
 first federal use of supply control in the milk industry.
- 1984 AB 910 Milk Pooling statutes revised relative to issuance of new quota.
 Quota allocated based on Class 1 growth above historic high.
 Implementation of \$0.15 per hundredweight national promotion assessment.
- 1985 1985 Farm Bill Dairy Termination Program
- 1987 SB 29 Establishes Milk Producers Security Trust Fund.
- 1989 Class 4b prices based on cheese prices began.
 Two month pricing for Classes 2 and 3 began.
- 1990 Extra light (1 11) milk introduced.
- 1991 AB 2203 Provided for emergency price relief
- 1992 Emergency price relief granted on Class 1, 2 and 3 from February
 through August 1992.
- 1993 SB 688 Milk Pooling Statutes revised to provide a fixed Class 1 price
 differential of \$1.70 from January 1, 1994 to January 1, 1995.
 SB 72 Authorizes dairy product cross promotion. Yogurt reclassified
 from Class 1 to Class 2 milk product. Quota allocation now based on
 Class 1 and 2 SNF growth.
 Cost of Production and consumer purchasing power removed from
 Class 1 pricing formula. Now formula only uses Commodity Reference Price.
 California Milk Processors Board established.
 California Dairy Advisory Committee established.
- 1994 AB 1285 Removes sunset clause on SB 688 making the \$1.70 fixed
 differential permanent.
- 1995 Emergency price relief granted on all classes from June 1995 through
 January 1996.
- 1996 SB 1885 Changes accounting for restricted use market milk.
 Eliminates producer's ability to de pool their milk on a monthly basis
 by giving up their Grade A permit.
- 1997 Changed the pool accounting for other source milk on July 1.
- 1998 AB 1058 Removes sunset clause on SB 1885.
- 1999 California Milk Price Survey initiated as a result of SB 419, legislation passed in
 September 1999.
- 2000 As a result of changes to both systems, pricing in California and Federal Milk
 Marketing Orders become much more similar.
- 2001 Transportation credits and allowances for various areas of California were
 amended and a new receiving area for San Diego County was created.



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